

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1266:

GAATTCGGCC	AAAGAGGCCT	ACCGCCCATC	GCGCCGGCGC	GACCCGCAGG	AGCGTAGAGA	60
GCGCGGACT	AGAGTGCAGA	GCTCCGGAC	GTGGATCGGA	GCCGGCGCGA	TGGCGGAGA	120
GCAGGAGGAG	GAGCGGTTCG	ACGGCATGTT	GCTGGCCATG	GCTCAGCAGC	ACGAGGGCGG	180
CGTGCAGGAG	CTTGTGAACA	CCTCTTCAG	CTTCCTTCA	CGCAAAACAG	ACTTTTCAT	240
TGGAGGAGAA	GAAGGGATGG	CAGAGAACGT	TATCACACAG	ACTTTCAGCC	ACCACAATCA	300
GCTGGCACAG	AAGACCCGGC	GGGAGAAGAG	AGGCCGGCAG	GAGGCCGAGC	GGCGGGAGAA	360
GGCGGAGCGG	GCGGCCAGAC	TGGCCAAGGA	AGCCAAGTCA	GAGACCTCAG	GGCCCCAGAT	420
CAAGGAGCTA	ACTGATGGAG	AAGACTCGAG				450

(2) INFORMATION FOR SEQ ID NO:1267:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 459 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1267:

GAATTCGGCC	AAAGAGGCCT	AGCTACTAAG	GCAGGTGCAG	CATCAATGAT	TCACT ^a TATG	60
GTTCTGATAT	CAGCTCGTT	GGTACTACTC	ACTTTGTGTG	GATGGGTACT	TTG...JACC	120
CTCGTCAATC	TCTTTCGAAG	CCATTTCAGTC	CTCAATCTCC	TTTCCTTGG	CTACCCGTTT	180
GGTGTATG	TTCCTCTTTG	CTGTTTCAT	CAAGATAGTA	GAGCACATCT	TCTTCTCACA	240
GAECTACAAT	ATGTGGTTCA	GCACGAGGA	GTAGAGGAAA	GTGCCTCGAC	TGTGGGAGGC	300
TTGGCCAAAT	CCAAAGACTT	TCTCTCCTTG	TTGCTGGAGT	CGCTAAAAGA	ACAGTTAAC	360
AATGCCACAC	CCATCCCCAC	CCACAGTTGT	CCCTATCTC	CAGACCTCAT	TCGCAATGAA	420
GTAGAAATGTC	TGAAAGCAGA	TTCAACCAC	CAACTCGAG			459

(2) INFORMATION FOR SEQ ID NO:1268:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 432 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1268:

GAATTCGGCC	AAAGAGGCCT	AGAGTTTCA	TAAGCCGGC	TGGTGTAA	AACGTGTTTT	60
GGCTTGTTC	ATTTTATGGT	GTTGGTGTG	GTATTGGTGG	TCATGTACTG	GCATGTAAGA	120
TTTCTTTCT	CTTCCCTCT	TCTCTCTGCT	TCTACATTCT	GTTCATTGAG	GCTTCCAAT	180
GAATATGAGA	GGAACGGGAG	ATATGAGGC	TCAAGTCGCA	ATGTATCTGC	TGAGCAAAA	240
GATGAAAACA	AAGAACCAA	GCCTCGATCC	CTACGCTTCA	CCTGGAGCAT	AAAAACCACT	300
AGTTCAATGG	ATCCCGGGGA	CATGATGCGG	GAAATCCGCA	AAAGTGTGGA	CGCCAATAAC	360
TGCGACTATG	AGCAGAGGGA	GCGCTTCTTG	CTCTTCTGCG	TCCACGGAGA	TGGGCACGCT	420
GGTAACCTCG	AG					432

(2) INFORMATION FOR SEQ ID NO:1269:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 510 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1269:

GAATTCTGGCC AAAGAGGCCT ACCCTGAACT ACTCCAGTGT GCACCTGCAC AACCTCCATG	60
GTGCCCTCTGG AATTGGGTAG CATGGTGGCC CTGCTGATGA GCACCCCAAG GGGCATTGG	120
GGGACCTCTG AGAACATCTG CCAGAGCAGT TTGGGTGGGA GTCGATTAAG GAAAGAAGCA	180
GCAAGATCCA GGACTTTAA TCTTAAAAGA GAGAGAAATG CTGGCAGATG AACATTCTGA	240
GGATAAGGAG CCTGAGTAAT TGAGCGATTA GGGATGGAGA CATAACGATTG AATTCTAGAC	300
CTGCCTCGAG TAGCCAATCA AGCTGTGTCT GGCTGTGCAC TATCCAGGCC TCCACATTCT	360
GTGACAAACT AACAGGGCCG GCTCCTGTCA CTCTGTCT CGCCAGCGGG TTTACCCCTG	420
AAGGTGACTC AGGCCTTCTC TTGCCCCTAG ATCGTGGGG A TCATCACACG GCACAACCTC	480
ACCTATGAAT TTCTGCAGGC GTAGCTCGAG	510

(2) INFORMATION FOR SEQ ID NO:1270:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 388 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1270:

GAATTCTGGCC AAAGAGGCCT ACGCATCCCC TGCAGCTCTT GCCCCCAGAC GTTTGGTACC	60
AAACTCGAAAC TGCGCTTGCA CCGGTTAAGG GTACATGACA AAACACCTAC CCACTTCTGT	120
CCACCTTCTG ACTATAGTGG CTACCTTCGC CATGACATCA CTCGTCATGT CAACAGCTGC	180
CACCAAGGCA CCCCAGCTT TGCCTGCTCC CAGTGTGAAG CCCAGTTCAG CTCAGAGACA	240
GCACCTTAAGC AGCATGCTCT GCGCCGACAC CCCGAGCCTG CACAGCCTGC CCCGGCTCT	300
CCTGAGAGA CCACTGAGGG CCCCCCTGCAC TGTTCCCGCT GTGGGTGCT GTGCCCCAGC	360
CCTGCCAGCT TACGAGGACG GCCTCGAG	388

(2) INFORMATION FOR SEQ ID NO:1271:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 407 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1271:

GAATTCTGGCC AAAGAGGCCT ACAGAACTGT GCCATATTCT TAAACATCAT ACAATATTGC	60
CTTTCAGGCA TGAAAAGCAA AGGGAATTAT TTGTTCATTT GATAGCGCTT TACTAATGTA	120
AGTGGATACA CTTAGGGCTA GCCCTCTGGC TTGTTACCAT GGTAAGCTAG GGGAAATATAG	180
TTGAGGGGTC TGCAGCAGAG CTTGGAGAGG ATCTGGGATG TTAAATTCTC AACTACTTGA	240
ACTTAGCAAC AGGACTTGGT CCCATCCACA CCCTGCTCTC CACCCAGCT GGAAATAATT	300
AGTGCTGACT ATGGAGGCCA AGAGAAACAT ACTTGTAAAGC TTTTTGTTT GGATTTCTT	360
TGGGGTTTCC TTTTGTCTT TTCTGAACTG GAGGGTGAAGA TCTCGAG	407

(2) INFORMATION FOR SEQ ID NO:1272:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 321 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1272:

GAATTCCGCC	AAAGAGGCCT	ACATAATCA	AAAATTTCTG	TGAAGATGGG	AAATAAGGCC	60
AAGATTGCAA	AATGTCCCTT	AAGAACAAAA	ACTGGGCACA	TTCTAAAATC	AACACAAGAT	120
ACTTGATTTG	GGAGTGAAAA	ACTTTGCAA	AAGAAGCCAG	TTGGTTCAGA	AACATCACAG	180
GCAAAAGGTG	AAAAAAATGG	AATGACTTTT	TCATCCACTA	AGGATTATG	AAACAAATGT	240
ATAGATAAAAG	ACTGTCTTCA	TATCCAGAAA	GAGATTTCAC	CTGCAACCCC	TAATATGCAG	300
AAGACTAGAA	ACACCCTCGA	G				321

(2) INFORMATION FOR SEQ ID NO:1273:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 205 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1273:

GAATTCCGCC	AAAGAGGCCT	ACGAGAACTT	CCTTTTCATC	TGAATCTTCG	TCAAACCTCTC	60
TCTCAGAGCC	TTCCCTCATCT	AACACTTTTT	CAGAGCCGTC	ATCTTCAAAT	TCGGAGTTTT	120
CAGAGTCATT	TTCTTCTAAC	TCTTTGTCAA	GAACATTTTC	ATGAAGCTCC	TTTCAGAAC	180
CTTCCTCGTC	CAAATCTTTC	TCGAG				205

(2) INFORMATION FOR SEQ ID NO:1274:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 450 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1274:

GAATTCCGCC	AAAGAGGCCT	ACTCAAACT	GAGGCTGATT	GGTCGTTAG	GCCAATTGGG	60
TTTGAAAGAA	GGATTTCCAT	CTGCTGTGAA	AAATATTAGT	TCGGTTATTG	GTATGTTTAT	120
ACAGCATGCT	CACGATGAAG	ATATACCATG	GGGTATACAG	TTAGCAGCCG	TGTATGCTCT	180
TTGTGACTTG	AGTCCCAGCA	ATCCAGCAGA	AATTTCCAAG	ATCCTGGAAG	CTTGGCGGAG	240
AGAGGCCTCC	AAAAGCGTTC	CGTCTGCGAT	TGTCAGCTGC	CTAGAGGAAG	TCAGTGCCT	300
GAGCACAGAG	GAGCTTGGCT	GACCTGGGAT	GCCACTGAGG	CTTGAGAAGT	GCCTTGACAC	360
ATTTTGAACA	CAAATAGTTT	GATCAGCTTT	CAGAATACAA	AGGGAGGTTT	CAAACAAAAA	420
AGACATAAAA	TAGATAAAAG	CAGACTCGAG				450

(2) INFORMATION FOR SEQ ID NO:1275:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 255 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1275:

GAATTGGCC AAAGAGGCCT AAAGAACAG GAAAGGATAA ATTACAGAG GGAAGAGATA	60
GAAAGACAAC GGAAAATGTT AGCAAAGCGG AACCTCCTG CCATGGGTCA GGCCCTCCT	120
GCAACCAATG AGCAGAAACA GCGGAAAGC AAGACCAATG GAGCTAAAA TGAAACGTTA	180
ACGTTAGCAG AATACCATGA ACAAGAAGAA ATCTTCAAAC TCAGATTAGG TCATCTAAA	240
AAGGAGGCTC TCGAG	255

(2) INFORMATION FOR SEQ ID NO:1276:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 367 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1276:

GAATTGGCC AAAGAGGCCT AACAAAGATTG ACCGTGAATG GTTCACTGTT GAAACTCTGT	60
GATGGTACT TGAGAATTAA TTATATTATT ATGCCTATAT TGCAGATATT TGAAGTTCC	120
CAATAAAATG TTTAAATAG TGGCAGGGGG CAAGAAGAAA AGGACCACTC AATTAAAGA	180
AAAAATAATT TTAAAAGACA CAGAGAATAG GAAGAGGGAA AAATTGGTGA GGCAAGAGAA	240
AGGCAGCAGG TGGGGCCATA TCAAGAGTGA TTCTTCAGCA GGTGAGGCCT GATACCACCG	300
CAAAGTAGA GGGTTGGCTG TAAGATAGGG GGACAGATG GCTATAATGC AAGGGAAGGC	360
GCTCGAG	367

(2) INFORMATION FOR SEQ ID NO:1277:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 624 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1277:

GAATTGGCC AAAGAGGCCT ACTCAGAAAC AAAGCCAAAA TTAAGTTCAT CATTAAAAG	60
CCCGAAATGT TTGAGACGGC GATTAAGGAG AGCACCTCCT CTAAGAGCCC TCCCAGAAAA	120
ATAAAATTAT CATCCAATGT TAATACTACT GCATCAGGTG TTGAAGACCT TAACATCATT	180
CAGGTGACAA TTCCAGATGA TGATAATGAA AGACTCTCGA AAGTTGAAAA AGCTAGACAG	240
CTAAGAGAAC AAGTGAATGA CCTCTTTAGT CGGAAATTTC GTGAAGCTAT TGGTATGGGT	300
TTTCCTGTGA AAGTTCCCTA CAGGAAAATC ACAATTAACC CTGGCTGTGT GGTAGTTGAT	360
GGCATGCCCG CGGGGGTGTC CTTCAAAGCC CCCAGCTACC TGGAAATCAG CTCCATGAGA	420
AGGATCTTAG ACTCTGCCA GTTTATCAA TTCACGGTCA TTAGACCATT TCCAGGACTT	480
GTGATTAATA ACCAGCTGGT TGATCAGAGT GAGTCAGAAG GCCCCGTGAT ACAAGAATCA	540
GCTGAACCAA GCCAGTTGGA AGTTCCAGCC ACAGAAGAAA TAAAAGAGAC TGATGGAAGC	600
TCTCAGATCA AGCAGAACCT CGAG	624

(2) INFORMATION FOR SEQ ID NO:1278:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 286 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1278:

GAATTCCGCC AAAGAGGCCT ACCCAAATCC CATTAGATA AATTGAGGTT CATTTCAC	60
ATAGACTTGC ATTTTTAGA CACCACATT TTTTATAGT AACAGCCTCA TTGCGCTGTA	120
CAATAACTAA TAATACAGTA TTTCATAGGT ACATTGTATC TGACAGGAA ATTTTCTTT	180
AAATCTTAAA AGCCTTAAAT AAACGGGATA TTTAATATT TTAATGTTAC TACATTTAAA	240
AAATAGTGT TTCCTACAAA ATTTCTGTA TTCAGTAATA CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1279:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 227 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1279:

GAATTCCGCC AAAGAGGCCT ACTCATCATT AGCTGAAAGT TTGAGAGCTG CAGCAGAAC	60
GGCTGTATCA CAGACTGGAT TTAGTTATGA TGAAAATACT GGACTGTATT TTGACCAACAG	120
CACTGGTTTC TATTATGATT CTGAAAATCA ACTCTATTAT GATCCTTCCA CTGGAATTAA	180
TTACTATTGT GATGTGGAAA GTGGTCGTTA TCAGTTTCAT TCTCGAG	227

(2) INFORMATION FOR SEQ ID NO:1280:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 486 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1280:

GAATTCCGCC AAAGAGGCCT ACCCGTGCCT TCTACAAATA GTTCCGTGAG AAAGATGGCC	60
GGGAACCTGA TCCTGCTGGC TGCTGCTCT ATTCTCTCGG CCTGTCAGCA AAGTTATTT	120
GCTTGCAAG TTGGAAAGGC AAGATTTAAA TACAAAGTTA CGCCCCCAGC AGTCACTGGG	180
TCACCAAGAGT TTGAGAGAGT ATTTGGGGCA CAACAAAAGT GTGTGGAGTT TTATCCTATA	240
TTCATAATTAA CATTGTGGAT GGCTGGGTGG TATTCACACC AAGTTTTGTC TACTTGTCTG	300
GGTCTGGTGT ACATATATGG CCGTCACCTA TACTTCTGGG GATATTAGA AGCTGCTAAA	360
AAACGGATCA CCGGTTTCCG ACTGAGTCTG GGGATTTTGG CCTTGTGAC CCTCCTAGGT	420
GCCCTGGGAA TTGCAAACAG CTTCTGGAT GAATATCTGG ACCTCAATAT TGCCAAGAAA	480
CTCGAG	486

(2) INFORMATION FOR SEQ ID NO:1281:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 430 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1281:

GAATTCTGGCC	AAAGAGGCCT	AGACAAAATTT	CCTTTCATTG	CTTCCAGCCG	TGTTATTTAA	60
AGTAATTAAC	CTTAATTAT	AAATTTTAT	ATCAAATGC	CTTTAACTT	TTAGAACTGG	120
CAGGAACAGC	CTTATCCCTG	GGCTCCTAAT	AGTTCTCCAT	TTAATCAAAA	TTCATCCATC	180
AGGTTCCAGT	GTTAAATCAT	CTTTTAATTG	GGAGTTACAT	TCTGGTTAAT	AGTTTTATAA	240
TTCGCCCTCCT	CTAATAGTTT	TTACCACAGG	GATCTGACT	CCATTTTCC	TGACTCTATT	300
ATTGCTGGCA	TGCGATTCT	GCGGGGATGG	CTAACGCGG	CCCTGCCTCT	CTGGCCTCTG	360
CTGGTCGCTC	CTTTTGTCT	TGGTGGTCTC	ATTAATTCCCT	GAGAAGAGTT	ATCCTTCCTC	420
CTCACTCGAG						430

(2) INFORMATION FOR SEQ ID NO:1282:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 333 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1282:

GAATTCTGGCC	AAAGAGGCCT	AATCCCCCTTC	TGCATGTTCC	CTTCCTGCAG	GTCTGATGGG	60
GCCATCCAC	CCTGCTGGGG	AGCACAGCTT	GCCCTCCCTC	CCCTCCCTCT	CTTCTGGCGT	120
TGCCTGCTGG	GTGCCATCGG	AGCAGTCCTC	ATTACTTCCC	ACTTTGCCC	AACTTCTGCT	180
GCTGTGACCA	GTCGCATACA	CGTGGACACC	GTGGGGACTG	CCCCTCCATA	CAGCTCCTCT	240
GTAAGCTTAG	GACCAAGGCT	GCCTCTCCAG	TCTCCCTGGC	CCATGCCTGC	CCGGGCATCC	300
TCCGCCCCAG	CTACACTGGC	CCCCGATCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:1283:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 269 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1283:

GAATTCTGGCC	AAAGAGGCCT	AGGACGTTGG	TGTTGAGGTT	AGCATAACGTA	TCAAGGACAG	60
TAACCTACCAT	GGCTCCCGAA	GTGTTGCCAA	AACCTCGGAT	GCGTGGCCTT	CTGGCCAGGC	120
GTCTGCAGAA	TCATATGGCT	GTAGCATTG	TGCTATCCCT	GGGGGTTGCA	GCTTTGTATA	180
AGTTTCGTGT	GGCTGATCAA	AGAAAGAAGG	CATAACGAGA	TTTCTACAGA	AACTACGATG	240
TCATGAAAGA	TTTGAGGGAT	GAGCTCGAG				269

(2) INFORMATION FOR SEQ ID NO:1284:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 339 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1284:

GAATTCCGCC	AAAGAGGCCT	AGAGCGTCAA	TTATATCAAT	TTGTCCCAGA	TTGGGATGAG	60
CTGTGAGGAT	GTAACACAAG	GCTGGAGGAG	GCAGATGAGT	TTTTATCTCT	TCACAGGGCT	120
GGTCGGGCC	AGGTGTTTC	AGAGGTATCG	CTGGGGGCCA	CAGGGTGTCA	ATCAAACGTGA	180
AAATCCCCGC	TGTCTTCCT	CTGGTGACTT	TCTGTAGAAC	CTTCATTCCC	ACCAGGCTGC	240
AAGACTTCCC	TTCCAACGTG	CTTGCCTTCG	ACATGGTGA	CTCCAAGTGC	ACTTCACCGA	300
ACATCCACA	GGCATCTTGT	ACCAGAAGGC	AGGCTCGAG			339

(2) INFORMATION FOR SEQ ID NO:1285:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1285:

GAATTCCGN	AAAGAGGNCT	AGAAATCANA	AAGCATGCCT	GTGCAATTGA	ACAAAGGGCT	60
AAGTTCTAAA	AACATCAGTT	CATCTCCAAG	CGTTGAGAGT	TTGCCTGGAG	GAAGAGAAATT	120
CACTGGCTCT	CCACCTTCAT	CTGCTACTAA	AAAAGATTCC	TTTTTTAGCA	ACATCTCACG	180
TTCTCGCTCA	CACAGCAAAA	CTATGGCAG	AAAAGAATCT	GAAGAAGAAT	TAGAAGCCCA	240
AATTTCCTTC	CTTCAGGGC	AGTTGAATGA	CCTGGATGCC	ATGTGCAAT	ACTGTGCAAA	300
GGTGATGGAC	ACTCATCTTG	TAAATATTCA	AGATGTGATA	TTACAAGAAA	ATTTGGAAAA	360
AGAAGATCAA	ATTCTGGTTT	CCCTGGCAGG	ATTAACACAG	ATCAAAGACA	TTCTAAAAGG	420
TTCCCTGCGT	TTAACCCAGA	GCCAGCTAGA	GGCCGAAGAG	AACGAACAGA	TCACCATTGC	480
GGACAACTCA	CTCGAG					496

(2) INFORMATION FOR SEQ ID NO:1286:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 319 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1286:

GAATTCCGCC	TTCATGGCCT	AGCAGAAGCT	AAGAACTGTC	TTAAAATAAA	TTTTAAAAGT	60
AAATAAGTTA	TAATGCATAG	GTTAGCCAT	TCATTAATGA	TTTCAGTTT	CAAGTGTAAA	120
TATTCTTAA	TGATTACTAG	TTGATCAGTG	TAATGAAAAC	ATTGAGTAGA	CAAACATAAT	180
GCACAGTATA	AATGTGACAT	AAACACTGGT	TTCAATTGT	CTCAAGAAAA	AAGAAAAAAA	240
AAAGGCCCT	GCAATGGCAA	AGAGTGGCCA	CTATTGGGT	AATTCAAACA	ACCCACTGTA	300
ATACAGGAAA	GCACTCGAG					319

(2) INFORMATION FOR SEQ ID NO:1287:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 261 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1287:

AAAATGGAGA AGTTACTGGC TGGAGAAGAT GGGACAAAGTG AACGAAGGAA AAGCATCAA	60
ACCTACAGAG AAATTGTTCA AGAAAAAGAG CGGAGAGAGA GAGAGCTGCA TGAAGCATAT	120
AAGAACGCTC GGTCCCAGGA GGAGGCAGAG GGGATCCTTC AACAGTACAT TGAGAGGTTTC	180
ACCATCAGTG AGGCTGTTCT CGAACGCTTG GAGATGCCAA AAATTCTGGA AAGAACCCAT	240
TCAACAGAGC CAAAACTCGA G	261

(2) INFORMATION FOR SEQ ID NO:1288:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1288:

GAATTCGGCC TTCATGGCCT ACTCTGAAGA TATTTATAGC TCTCTTAGAG GTGTCACTGA	60
AGCAATCCAG AATTCAGCT TCCGTAGCCA AGAAGATATG AATGAGCCAT TGAAAAGGGA	120
TTCTAAAAAA GATGATGGCG ATTCAATGTG TGGTGGTCCT GGGATGTCTG ACCCAAGAGC	180
AGGAGGTGAT GCTACTGACT CAAGTCAAAC AGCTCTTGAT AATAAAGCTT CATTGCTCCA	240
TTCAATGCCT ACTCACTCCT CTCCACGCTC TCGAG	275

(2) INFORMATION FOR SEQ ID NO:1289:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 139 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1289:

GCGATTGAAT TCTAGACCTG CCTCGAGAAC GCCGGGGTCC ATCATTAGCA GTCTCACAT	60
GCGCCGGAGA GCTACATCAA CACGAGAGTG TCCATCTCGC CCACACCAGA CTATGCCAA	120
CTCATCTTCC CCCCTCGAG	139

(2) INFORMATION FOR SEQ ID NO:1290:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1290:

GAATTCTGGCC	AAAGAGGCCT	AATAAGTTG	ATTAAGCTTG	CAGACATTA	GCTTTCTAG	60
CAGCTGGTGT	GTGCAGAGGC	AGATGGCTCT	CTGGTTCAG	GAECTACCTAC	AATATAGAGA	120
AATTTCTCT	ATTCCAGTCA	ATTCATCATG	GCTAAGAATA	GTCCATTTG	GTAGTGTAT	180
TTCATCGTT	ACAATCTACC	TATGGTAGT	GGCTGGTAAC	TGCCTGGATG	TTGACATTTC	240
ACAAAGGCCA	TACTTAACCA	CACTTTATT	TCTATTGTC	CGATGCCTTG	GAGTAGTTTC	300
CCAAAGTGAT	TTTGAGTGTG	GAAGAAATGG	TATTGTCCCC	GAACAGCTGG	TGGTCGAG	358

(2) INFORMATION FOR SEQ ID NO:1291:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 139 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1291:

GAATTCTGGCC	TTCATGGCCT	AGAGGATCCT	AATGAAATAC	CTGAAACATA	TATTGGCATT	60
TATCAATGGC	TCAAATCTTC	ATTTATCTCT	GGCCTTAACC	CTGGCTCCTG	AGGCTGCGGC	120
CAGCAGAGCC	CAGGTGAG					139

(2) INFORMATION FOR SEQ ID NO:1292:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 442 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1292:

GAATTCTGGCC	TTCATGGCCT	ACTATCAGGA	AGTGATTCTG	GGAGAGGGGA	TTTTACCTGA	60
TGGTGGAGAA	TACAAACCCC	CTTCTGATTTC	TTTGAAAAGC	AGAGACTATT	ACACGGATTT	120
CCTAATTACA	CTGGCTGTG	CCTCGGCAGT	GGCACTGGTC	CTTTTTCTAA	TACTTGCTTA	180
TATCATGTGC	TGCCGACGGG	AAGGGCTCAT	CCAACTGGTC	CATCACAGTG	CTATTCAAGA	240
ATCTACCAAG	GAGCTTCGAG	ACATGTCCA	GAATAGAGAG	ATAGCATGGC	CCCTGTCAAC	300
GCTTCCTGTG	TTCCACCCCT	TGACTGGGGA	AATCATACCT	CCTTTACACA	CAGACAACTA	360
TGATAGCACA	AACATGCCAT	TGATGCAAAC	GCAGCAGAAC	TTGCCACATC	AGACTCAGAT	420
TCCCCAACAG	CAGACTCTCG	AG				442

(2) INFORMATION FOR SEQ ID NO:1293:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 231 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1293:

GAATTGGGCC TTCATGGCCT ACATGAATTA TCTGTGAGTT GGTTAAAGGT AATATTGGTT	60
AGCATCAAGA ATAGGAAGCT ATTAGTTTC AATCAAGAAT AAGCTCAAAT TTGGTCTAAA	120
TCTTAATTTC AAGCTGGGTA ATCATTGATT TACAATTTC TTCTGGGTG CACATTCTT	180
CCAAAACAAT AATCAATGAA GCCTTCCCAC CCTGTGCCT TTGCTCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:1294:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1294:

GAATTGGGCC TTCATGGCCT ACTCTGCTAA CTTCCTGCCT CTATGTCTTT CCCCCACCTAC	60
CTCCTCTCCC CATTACACT CCTGCGTGAC CTCATCCATT TACCTGCCTT CAATTAGCAT	120
CCATACGTTTC CTCCCTTCTC AATATAAGTC CCCAGCTGAG ACTCTGTTTC TGAAATCCAG	180
ATTTTTATTT CCAATTCTAC TGAACAAACT CAGTCTAAAG CCAAGCCCAT TATCTTCTCC	240
TATAAGCCTG CATCTTTCTC TTTCTTCTT TCTTTTTTTT TTTTTAACAG AGGTTAATGG	300
CATTCAACAT CTACCCAAGC ACCAGGGAGT TAGATTAGA ACGGATGGAC TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1295:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 429 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1295:

GAATTGGGCC TTCATGGCCT AGGCTAACTG TTATTTGCAT CTTACAGCTC AGAAAACAAG	60
CATGGTGAGA TAAGGAAACT TTACTAAGGT CACATAACTA GTAAGTGGTG GAGCCAGCGT	120
TGAAACTCGAG GAAGTCTGTA CACAACGGGG AGGGAAAGGCT AATATTTGAA ATGATAGACT	180
CAACATTCAA TATTCAGTA TCGATGAGCT CTAAGTTGAT AGAGCTATGT GTAAAAACCC	240
TGCATTTAAT ATTAAGAAAT CATTGGCAGA AGAGTAAGAG AGGGCTTTGG TCAAGTAAGC	300
TGAGTGCATA AGAAAACCTCT GGCAATTGAG GTGTCCTTAG CTCCAGATGC TTTGGTAGGG	360
CAGAGTGTAT CCATGGAGGT ACCATGGAGCT ACCATGGAGG TAGCTCAGAG AGGAAAGGGA	420
AACCTCGAG	429

(2) INFORMATION FOR SEQ ID NO:1296:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 406 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1296:

CTCGAGCTGT TCTGTAATA CCTGGTGCTA ACATCCCAGT CCGCTCCCTC CTCACGATGC	60
ACCCACCGCC CTGAGGGCCC GTCCTAGGAA TGGATGTGGG GATGGTCGCT TTGTAATGTG	120

CTGGTTCTCT TTTTTTTTTC TTTCCCTCT ATGGCCCTTA AGACTTCAT TTTGTTCAGA	180
ACCATGCTGG GCTAGCTAAA GGGTGGGGAG AGGGAAGATG GGCCCCACCA CGCTCTCAAG	240
AGAACGACC TGCAATAAAA CAGTCTTGTG GCCCAGCTGC CCAGGGGACG GCAGCTACAG	300
CAGCCTCTGC GTCTGGTCC GCCAGCACCT CCCGTTCTC CGTGGTGAUT TGGGCCGCT	360
TCCTCACATC TGTGCTCCAT GCCCCTAGGC CTCTTTGGCC GAATT	406

(2) INFORMATION FOR SEQ ID NO:1297:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 639 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1297:

GAATTCGGCC AAAGAGGCC ACGCCGCCA ACACGCCTGG GTAATTTTT GTATTTTAG	60
TAGAGACGGG GTTCACCGT GTTAGCCAGG GTGGTCTTGA TCTCATGATC TCGTGATCCA	120
CCTGCCTCGG CCTCCCAAAG TGCTGCATT ACAGGCAAGT GCCACCGCAC CCGGTGACAC	180
TGTTGCTCTT AAGCAGAAC AAAATCAAAAG GCAGACAGG ACTCAAAGAA TGGTCTAAA	240
CCTAAAAGTA CTAAGGCCTC TAGGAACATAT GATGATGACA ATTACTGTGC AATTATATAC	300
ATGCTGAATT TTAGTAAAC CCCTGGCAAA CCACCTCTCAC TTGGTGACAC TCCGTCCACA	360
GCACGGGCC ACAGCATAAGT GGATCAGTAC AACTTTCTG GACAGCCTTG CTACCTGTAC	420
ACTCTTATGG ACTCAATTCC ACTTCAATGT ATTGTTCTA GAGGTAATG GACATGTGAA	480
CACAGATTCA CAGGCAAAGA TGTTTATATG CACCACTGTC TTGATGTTCA AGAAAATGGA	540
ACTGGTTACA TGCATGTGAT TAGCTATATA ATGTAACTGT ATTCAAGCCCC TAAAAAATGT	600
AGGCCCTTT GGCGATTGA ATTCTAGACC TGCGCTGAG	639

(2) INFORMATION FOR SEQ ID NO:1298:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 606 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1298:

GCGATTGAAT TCTAGACCTG CCTCGAGTCC AACGGCATCG ACGTGTACCC CCAGAAGGAA	60
TTTGATGAGG ACTCGGAGGA CCGGCTGGTG AACGAGAAAGT TCCGGGAGAT GATCCCATT	120
GCTGTGGTGG GCAGTGCACCA CGAGTACCCAG GTCAACGGCA AGAGGATCCT TGGGAGGAAG	180
ACCAACTGGG GTACCATCGA AGTTGAAAAC ACCACACACT GTGAGTTGC CTACCTGCGG	240
GACCTTCTCA TCAGGACGCA CATGCAGAAC ATCAAGGACA TCACCAGCAG CATCCACTTC	300
GAGGCGTACC GTGTGAAGCG CCTCAACGAG GGAGCAGCG CCATGGCCA CGGCGTGGAG	360
GAGAAGGGAGC CAGAAGCCCC GGAGATGTAG ACGGCCACCT GCCCACCCCC GGGATCCTGC	420
CCCCAAGTCA TTTCCGTCCC CCCCCCAGGC CCTCCTCCCA CGGAGTGGCA AGACTGGCTG	480
AGGCCTAGCT CTCTAAAACG GTGGGGGAGG GGGGAGCGCC CTGAGAGAGG CATTCTACTA	540
ACCCACCCCC AATCACCCCT ATTTTACTC TTTCTACTT CGGAATTGGA AAGAACGACA	600
CTCGAG	606

(2) INFORMATION FOR SEQ ID NO:1299:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1299:

GAATTCCGGCC AAAGAGGCCT AGGAGTGATG TTCATTTGG GATTTGCAGG GTGCATTGGA	60
GCGCTACGGG AAAACACTTT CCTTCTCAAG TTTTTTCTG TGTCCTGGG AATTATTTTC	120
TTCCTGGAGC TCACTGCCGG AGTTCTAGCA TTGTTTTCA AAGACTGGAT CAAAGACCAG	180
CTGTATTCT TTATAAACAA CAACATCAGA GCATATCGGG ATGACATTGA TTGCAAAC	240
CTCATAGACT TCACCCAGGG ACTCGAG	267

(2) INFORMATION FOR SEQ ID NO:1300:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 414 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1300:

GAATTCCGGCC AAAGAGGCCT AGTGTTC AATCAAGTTA ATAAATATCT GTCTCGTAC	60
CAGGAAAAT TCAATATTAT TTTAAAGGAG AAAAATAAG AATGTATTGG TAAAATGCTT	120
TCTCTCACTT CGAAATATCT TAGTGAACAA GAACACTGAC ATAGAATTA AATTCTATGA	180
ACAGCCATAA CCAAAGGAAT CTCAATTAGT GAATATTAT GTCCAGTAAC TGCAACCCAC	240
ACTTAGAGCT ATCCCTTTGC TTAAAAACAA AAATTGGGC CTTAAGAAGT GATTAATATC	300
AGGCAAAAT AAATTATACT TTGTTTATT TATTCAGGGC CTTGCTCTGC TGCCCAGGCT	360
GGACTGCGAT AGTGAATCA TAGCTCACTG CATCCTTGAA TTCTGGGCT CGAG	414

(2) INFORMATION FOR SEQ ID NO:1301:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1301:

GAATTCCGGCC AAAGAGGCCT AGTGAAGTTT ACTGTGATTG TATGGAACAA TTGGACAAG	60
AAGAGTCTTT AGACAGCTTT ACGTCCAACA ATGGACCATT TCAGTATTAC TTGGGTGGTC	120
ATTCAGTCA ACCCATGGAA AATTCTGGAT TTCTGAAGA TATTCAAGTA CCTCCTGGAA	180
ATGGCAACAT TGGGAATATG CAGGTGGTTG CAGTTGAAGG AAAAGGTGAA GTCAAGCATG	240
GAGGAGAAGA TGGCAGGAAT AACAGCGGAG CACCAACT CGAG	284

(2) INFORMATION FOR SEQ ID NO:1302:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 193 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1302:

GAATTTCGATT GAATTCTAGA CCTGCCTCGA GCCTGTGCGA GAAAAGTGAA CGCCAGTCTA	60
AAAAAAAAAAA AAAATCTAA AAGAACCAA AAATCCACTT GTAATGAGAT TCATAGACCC	120
CTTATTTATA CAACTCACAT ATTTGAATT TTACATATTG AATTTCTTT TAAAGGGGTG	180
GAGGGGTCTC GAG	193

(2) INFORMATION FOR SEQ ID NO:1303:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 305 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1303:

GAATTCCGCC TTCATGGCCT AGGGATACAG CAACTATTTT ATCAATTGTT TGTATTTCCC	60
TTTAAGGTAA CATTTTAAAT GAAATGTATT ATATTTAAT CTATCCTTTT CCTTTGTTTT	120
TGTTCTTATT ATCTCTTCTG ATATATAACC AAAAATGAA AAAATCTGTA CACTTGGTGT	180
TTGATTTACC TAAGCACCTA GTTAATTAA TCTTTGTAAC ACTTTGGATG GTTAACTTAA	240
CCTTACTCA AGTTGGTTT TGTTTGTG AAAATGACTT ACTTGGTGA ACCACTACTC	300
TCGAG	305

(2) INFORMATION FOR SEQ ID NO:1304:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 416 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1304:

GCAGCGAGCA GTATACCAGC AGCAGCAAGC GAAAGGAAGA GTTTGCTGAT ATGTCAAAAG	60
TTCATTCACT GGGAAAGCAAT GGGCTCTGG ACTTTGATT AGAATATCAG GAGCTCTGGG	120
ATTGGCTGAT TGACATGGAG TCCCTTGTGA TGGACAGCCA CGACCTGATG ATGTCAGAGG	180
AGCAGCAGCA GCATCTTAC AAGCGATACA GTGTGAAAT GTCCATCAGA CACCTGAAAA	240
AGACGGAGCT GCTTAGTAAG GTTGAAGCTT TGAAGAAAGG TGGCGTTTA CTACCAAATG	300
ATCTCCTTGA AAAAGTGGAT TCAATTAAATG AAAAATGGGA ACTGCTGGG GTATTTGCAT	360
TTTTATTACT GTTTGTAGGT TATGTGTACA TTTTTTGCCT AGTGAAGTCA CTCGAG	416

(2) INFORMATION FOR SEQ ID NO:1305:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 345 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1305:

GAATTGGCC	TTCATGGCCT	ACCAATGTCC	TGCACATTGC	CAGACTTCCA	AACAGGTACA	60
AGTCCCATC	TGTTCTGCAA	TAGATGAAAG	CAAGTCACAG	TTCCCAGGGC	TACCA GTGTA	120
ATTCTCAAG	TGGCCAAGTT	ACCTGGCTTC	ATGGCTTGAC	CTGCTGTGTT	CTTTGGAAA	180
TGGAGAATGC	CTGAGGGCTG	TCTCTAACAG	AAGGGTATGT	GGCAGTATAT	TACAGAATT	240
ACAAGAAGCA	AGGTGCAAAT	GAATTACATT	GAATTCATT	GTAAAGAAGA	GATGATTAA	300
AATTTGGTAT	TTAACACAT	AAACGACTTT	GGGGCCCCAAC	TCGAG		345

(2) INFORMATION FOR SEQ ID NO:1306:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 209 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1306:

GATTTCTCTC	AGCTTTTATT	TGTTTAAAAA	ATTTTTAAT	TCACCTTCTT	TTTGAAAGA	60
TTTTTACTGA	TTATAGAATT	CTAAGTAGTT	TATTCTCTA	GGACTGTGAA	CATAAATT	120
TACTGTCTTC	TGGCATTAT	AGTTCTTTA	TTTTATTTT	TATTGAAAAAA	CATTTTTTT	180
GAGACATGGT	CTCACTCAGA	ATACTCGAG				209

(2) INFORMATION FOR SEQ ID NO:1307:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 251 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1307:

GAATTGGCC	TTCATGGCCT	AAGCTTTGC	TTTTTTAATA	ACTTGTATAG	CTAAAAACTT	60
GACGGTGAAA	AGCTCTCAGA	TCAAAGCTGA	TCCTTCTGTC	AGTAATGATT	CTAAAAATAAA	120
GCAAGATTT	AATGGGGAAT	ATATTTTATT	TCATTCTTAT	CTCAAAACCTA	GGTACTGTGG	180
TCGTTTGAG	TTCATTTCGA	GGCATTTCA	ATGTGCCTCA	GGCCACATCC	AACCTCTCCC	240
CAGAACTCGA	G					251

(2) INFORMATION FOR SEQ ID NO:1308:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 317 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1308:

GAATTGGCC	TTCATGGCCT	ACCTGACTCT	TGAGATACTG	ACTGGAAGAT	AGACTGTTTT	60
GTTCCACCTG	ATTGTATGGG	AGAAATTTT	GACCTTAGAA	AGTGGAAATG	AGGGTGTAT	120
GGAAACTGGT	AATTCTGCTG	CCACTCATAA	ACTCTTCTGC	AGGTGATGGT	CTTTAAGCC	180
GTCCTATTTT	TACTCAGGAG	CCACATGATG	TCATTTTCC	TTGGATTTA	TCAAATCTG	240
AGGTCACTCCT	GAATTGTGCT	GCTAACGGTT	ACCCCTCGCC	TCATTATAGG	TGGAAGCAAA	300

ATGGCACAGA ACTCGAG

317

(2) INFORMATION FOR SEQ ID NO:1309:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 412 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1309:

GAATTCCGCC	TTCATGGCCT	ACACAGTATC	ACTAAAAGAT	TTTCATTCCG	AAGATCACAT	60
TAGTAAAAG	ACTGAGGAAG	TGGTTCTGAA	AGATGGAAGA	ATTGAAAGAC	TAAAGTTAGA	120
GCTTGAAGG	AAAGATGCTG	AAATCCAGAA	GCTGAAAAT	GTAATCACTC	AATGGGAGGC	180
AAAGTATAAG	GAAGTAAAGG	CAAGAAATGC	ACAATTATTG	AAAATGCTTC	AGGAAGGTGA	240
AATGAAAGAT	AAGGCAGAAA	TACTTCTGCA	AGTTGATGAA	TCACAAAAGTA	TCAAGAATGA	300
GCTCACTATT	CAGGTGACTT	CACTTCATGC	TGCAATTAGAA	CAAGAAAGAT	CTAAAGTGAA	360
AGTATTACAA	GCAGAGTTAG	CCAAATACCA	GGGTGGCAGA	AAAGGGCTCG	AG	412

(2) INFORMATION FOR SEQ ID NO:1310:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1310:

CTCGAGTGTG	GTGGTATGTG	AATTATATCT	CAGTAAAGCC	ATCACAGGGC	AGAAGAAAAA	60
GAGAAAAGAA	AAAGAAAACC	TTCGAGGAAG	TCCAACAAAA	AACATGAGGA	AGAAAAGGTG	120
AGAGCCTGAG	GATCCACACA	GCAGGTACAG	CAACTAACTG	ACAGAAATTC	TAGAGCCAGA	180
CAACAATGAC	TAATCAAAC	AACCTAAAAA	CAAATGATTA	GGCCATGAAG	GCCGAATTC	239

(2) INFORMATION FOR SEQ ID NO:1311:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 278 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1311:

GAATTCCGCC	TTCATGGCCT	ACAAGGAAGC	ACAAGGAGAA	AATTATGATG	AAATGGAGCA	60
AAACAGGTAA	AGAGAGGGT	CAGAGAAGTG	ATGTGGGCC	TTGATGCTGA	AGCCATTGGA	120
GGGTTTCTG	TTGAGGAGGA	GTATGGAAT	GATATGATCT	GACTTATGTT	TCAAAAAGTG	180
TACTCTAGCT	GCTTTGTGGG	AAATATNGGA	GGGAGAGAGC	AGAATCAAGG	AGGCCATTAA	240
AAATGCCATT	GCAAATATCC	AAGAGAGGCG	GACTCGAG			278

(2) INFORMATION FOR SEQ ID NO:1312:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 247 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1312:

GAATTGGGCT TCATGGCCTA ATCACATATG GTAGAGATTT TATAACAGAAAT TTTAAAATGT	60
GGCATTAAAA AAACCTTGTTC CATGGAAAAC TGCTTCAGA GATTTTAAT AAGTGTTC	120
CTCACATAGG AACCTAAGCT TCTCAGAGCT TTTAATAGGC TTCTAACAGG CTAATAGTCA	180
AGGCCGTGAC CCAAGAAGGG ATATAGTTCA CAGTGTTC CACAAATATT TCACCCAGA	240
GCTCGAG	247

(2) INFORMATION FOR SEQ ID NO:1313:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1313:

GAATTGGGCC TTCATGGCCT AGGGTCTTAG CTTTGCTCT CCTTGCAAAG TTATTTCTAG	60
TTAACATT ATGCAGAAGG TATAGGGGTT AGTCCTTGCT ATATTATGCT TGGTTATAAT	120
TTTCATCTT TCCCTTGCCTG TACTATATCT ATTGCGCCAG GTTTCCTCTG TCTCAAAAAAA	180
AAAGAAGTTA CTTCCAAGAC AGACTTTAA GATGTAACCA GCACAAAGCA ATGTCAGGG	240
GGAGTGATAC ATGACAATAA ATGAGTCAGA TGAGCAAGAA GGCCCCAGAA CCCATGCCCC	300
CAGGACTCGA G	311

(2) INFORMATION FOR SEQ ID NO:1314:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 261 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1314:

GGGGAGCTGC AAACGCCCGC GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA	60
GATCAAGAAG ACGGGAACAG CACGAGGCAC TGGGAGCTGC AAACGCCCGC GATACTGTCA	120
GAGATGGAGA AAGGTATGAC AGGAAGAGCA GATCAAGAAG ACGGGAACAG CACGAGGCAC	180
TGGGAGNTGC AAACGCCCGC GATACTGTCA GAGATGGAGA AAGGTATGAC AGGAAGAGCA	240
GATCAAGAAG ACGAACTCGA G	261

(2) INFORMATION FOR SEQ ID NO:1315:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 326 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1315:

CTCGACTTGC ACGAGGAGTG GCAGGATTAT CTGCAGAGGG ACCATTGGGA CAGCTAGTAA	60
GGCCAGGTGC TCTTTAGGCA CCCCTCTTC CACCACTTC AGGCCTGTCA CAGCATCAGC	120
TGCTGAGAAG CCAATCTTG ACGTTAGAAT CAGAAGGCAA AAGGCCAGAA CTGCTGGCAT	180
TTTTATAATT GAGAATAGCA GCTTGTAAGT GTCTGTGATC CCTTGGGTCT CTTCTTTAC	240
TATTGACGCT TCTCTGTTT CTTTTTCAG AAGGGCTACT AATGTTGTTG TTATTAAGAA	300
TACAGTAGGC CTCTTGGCC GAATT	326

(2) INFORMATION FOR SEQ ID NO:1316:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 244 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1316:

GAATTGGGCC TTCATGGCCT AACGTCACTC ACTGTCCTTC TTGTTATCTA ATTCTCCTTC	60
ACCTAATAGA ACAGCAAATT CTTTGAGTTT AGGATCCTTA ATGCAGTGTAAATATTGCCT	120
TTTATCCTTC TTCTCAGCTA TGGTCTCAAT TCAAATCATG AGGACCATTG TGTTGGCTCC	180
CGAATGGCCT CACTGTTCCA CTCCCTCCCC ACTGCGCTAC AGTCCATTCC CCAGTGTCC	240
CGAG	244

(2) INFORMATION FOR SEQ ID NO:1317:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 149 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1317:

GAATTGGGCC TTCATGGCCT AGAAAGGTTT GCCTGGTAAG ACTGAACTGT TCATAGTTCT	60
TTAAATAAGC TACAATATT CCTAATTGTG TACCCCTTGAT TTTACTGTTT TCTTGGCCCTA	120
GAATGCTGTT TCTATCATTTC TTCATCGAG	149

(2) INFORMATION FOR SEQ ID NO:1318:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 302 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1318:

GAATTGGCC TTCATGGCCT AGTCAGCAAA GCAAGGGAG GCAGACCAACA GGCGTCACTGA	60
CTCTCACTGG AGTGCAATGG GACCCCCATG GGGTGAAAGC AGAGGGAGTGA GCTGCTCTGA	120
TGTGAGCACT CACTCTGCTT GCCATATACT GAGTAGACAG GAGAGACCAAG GGCAGAAGTA	180
AGAAGACCCA TCAGAGGCTC CTCAGGAACC CGAGTGGGAG ATGGTGGTGG AACAGGGTTG	240
TAGTAGTGGC AGTAGTGAAA AAATGATCAG GTTTGGAAA TATTTGGAAG GTCGAACCTCG	300
AG	302

(2) INFORMATION FOR SEQ ID NO:1319:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 219 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1319:

GAATTGGCC TTCATGGCCT AAGAAAAAAA GAAAGAAAAGA AAAAGAAAAG TACAAGTTA	60
TAAAGTATTA TAGTGAAAAAA TTGCGATTCT GGCTGATTTT AAGCCATTAA AAATTTATAT	120
AAAACAACCT TCCATAAAAAA TTGACAGGT GCCCAGATGT TGCTTTCTCC ATTTATTTTT	180
TGTTTTTTTT TAATCACAGT GGTCTTGAGG CAGGTCGAG	219

(2) INFORMATION FOR SEQ ID NO:1320:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 361 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1320:

GAATTGGCC TTCATGGCCT ACTGAGTTAG GTTTTATTAA TGCAGTTTT ACAGATGAGG	60
CTACTGTGAC ACAGAGGGCA TAAACTTGTC AAAGACATGC AGCAAACAGG ACAGACAAAT	120
CTGAAGCCAG GTTGTCTAAG CTCAGAACATCC ACACCTATAA CCGCTGTACC CCACGTCTTT	180
TGCCAGCAGG AGCTCACGTA CTTAGGACAG ACAATCAGTA CAGTGCTAGG CTCACTGAAG	240
GTGTTGAACA AATGTCCTTT CACTCTTTT GTTCTCAAAA GTACCAGGAA AGGCAGAAG	300
AAAAAAACTAC AAGACTTAA AACTACAATG GATCAGATCA CTCAGTAGCA CCTCACTCGA	360
G	361

(2) INFORMATION FOR SEQ ID NO:1321:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 66 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1321:

GAATTCAAAC GAAAGCCAGC TGAGAATACA GGAAACATGT TTCCAGCCAA ACCCAAAACA	60
CTCGAG	66

(2) INFORMATION FOR SEQ ID NO:1322:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 317 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1322:

GATTGAATTC TAGACCTGCA GCTACAGAAG TCAAGATTCC AAAACCAAGA GGCAGACCCA	60
AAATGGTAAA ACAGCCCTGT CCTTCAGAGA GTGACATCAT TACTGAAGAG GACAAAAGTA	120
AGAAAAAAGGG GCAAGAGGAA AAACAACCTA AAAAGCAGCC TAAGAAGGAT GAAGAGGGCC	180
AGAAGGAAGA AGATAAGCCA AGAAAAGAGC CGGATAAAAAA AGAGGGGAAG AAAGAAGTTG	240
AATCAAAAAG GAAAAATTAA GCTAAACAG GGGTTACTTC AACCTCCGAT TCTGAAGAAG	300
AAGGAGACGA TCTCGAG	317

(2) INFORMATION FOR SEQ ID NO:1323:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 106 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1323:

GAATTGGGCC TTCATGGCCT ACTGTAAGGA GGAGATGAAA GAATTAGTAG AAAAGGTTTT	60
AAAAACAGTT ATTATAACTA TATTCCATAT GCTGAAGGCC CTCGAG	106

(2) INFORMATION FOR SEQ ID NO:1324:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1324:

GAATTGGGCC TTCATGGCCT ACTCCTTTAT TTCTTTGTC TGTAGAATAA AGTCTTAGAA	60
TAATATTCCCT GTTAAGGGCCC TGCTTATCCC AATACCGTAT CCATACTGAA CTTTCAGTTC	120
TTTATATGCA CTCTACTCTC TGTCTTTCAG ATTTTGCGAG GTATTCTTT AGAACACTCT	180
TTCTCTTCCA TCTTATGCC TACTCTTGG GTTTCTGTTT AAACATTACA TTTCTCGGTG	240
GGGGGGCTTA TCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1325:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 78 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1325:

CTCGAGACCG CAAGCACTTC CCACCTCATC CTTATTCCT CTATCCCTT TCATTGTTT	60
TTTCTCCTT TTAAATTC	78

(2) INFORMATION FOR SEQ ID NO:1326:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 312 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1326:

GAATTGGGCC TTCATGGCCT AGAATTGTCC TCTGTGGAAG GGACTTTCTT TTGGCCCTAG	60
GCCCCCTTCCT GCCCCTGTGCG TCAGCAGAGA GATGGAAAAC TTGATGACTA GCTCCACCC	120
ACCGCCCCCTT TTTGCAGATG AAGACGGTTC CAAGGAGAGT AATGATCTGG CTACCACTGG	180
GTAAATCAC CCAGAGGTTTC CATACTAGTAG TGCGGCCACA TCATCCACCA ACAATCCAGA	240
ATTTGTGGAG GATCTCTCTC AAGGTCAGTT GCTTCAGAGT GAGTCTCAA ATGCAGCAGA	300
AGGCACCTCG AG	312

(2) INFORMATION FOR SEQ ID NO:1327:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 411 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1327:

GCGATTGATT CTAGACCTGC CTCTCCTTCA AGCATTGCAG CAAACAATTG TACTGTGAAT	60
ACGTCAATCAA TTGCAACGTC TTCAATGAAG GGTCTTACGA CTACAGGAAA CTCGTCTCTT	120
AATAGCACAT CTAACACTAA AGTATCAGCA GTGCCTACAA ATATGGCTGC CAAGAAAACA	180
TCTACCCCCA AAATAAATTG TGTTGGTGGT AATAAGCTGC AGTCAACAGG AAATAAAGCA	240
GAAGACACAA AAGGAACCGA ATGTGTTAAA AGTACTCCTG TCACTTCTGC TGTGCAGATT	300
CCTGAAGTAA AGCAAGACAC AGTGTCAAGAA CCAGTCACAC CTGCATCTCT TGCTGCTTTA	360
CAGAGTGATG TGCAGCCAGT GGGCCATGAT TATGTGGAAG GGATACTCGA G	411

(2) INFORMATION FOR SEQ ID NO:1328:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 286 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1328:

GAATTGGCC TTCATGGCCT ACTTTTCCT TGGTCAGATC ACAATGCTCC TATAAATGTT	60
TCACATAACA TGCTTACTTG TGGGTATACC CTCCTTATCT CCTCAGGGGC TAATTTGGG	120
AAGGGACTAC TGTCCTTACT TTAAAGTTAA ATATAAACTA AATTCTTCC CTAGTTAGCT	180
CAGCCTACGT GCAGAGATAA GCAAAAGTAG TTAACCTAAA AGATATCACC CTTTGGGGG	240
TGTCAGAGGC AAAATAGAGT CAGTCATGCT AAGCTCCCCT CTCGAG	286

(2) INFORMATION FOR SEQ ID NO:1329:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 340 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1329:

GAATTGGCC TTCATGGCCT AGGGGGATTG AAGATTTTT GTAGGTGGAA GGCTGAAAGT	60
GCGACTAGAG GGCAATAAAAT TCAAGGTGGG AGACTGTCTG CTGATGTTCA TTCCACTGGG	120
CTGTTTATGG ACTGGGCTGT TAGTGCTGGA GTGGCTACCC TGGCAACTA GTGCATTGG	180
ACTGGAACTA CTTGGGATA CAGTAGGCTT GGGAGTTGGG TTGGATTAG AAATAAGTTT	240
AGTTGATACT GAAGGCTTAG CTGACAGAGA GGGCTTGGGT GAGGCAGAAG GCTTAGGCAG	300
GGGCAGGGGT TTAGGAGATG TGGCAGGTCT AGAATTGAG	340

(2) INFORMATION FOR SEQ ID NO:1330:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1330:

GAATTAAAGA GGGCGATATC ATCACACTCA CTAACCAAAT TGATGAGAAC TGGTATGAGG	60
GGATGCTGCA TGGCCATTCA GGCTTCTTCC CCATCAATTAA TGTGGAAATT CTGGTTGCC	120
TGCCCATTA GGATGTTATG CTGGCTGGCT CGCCTCCCTCT TGACCCAGAT AGTTACGGTT	180
AACCACTGCT TTGGCAATGC TGCTTATAAC ACATCCCAAG TGCAGGCCGC AGTGGTCCAC	240
GTCATCCAGC CCCACCAAGT GACTTTGGTT GACTTGTGGG CTCCCACAGG ACTCGAG	297

(2) INFORMATION FOR SEQ ID NO:1331:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 355 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1331:

CTCGAGTCCG CTGAGCTGAG AAGCACTGCG ACTTTTCCGT GACAGACCAA CGATAGCTAC	60
CATTGGCA CCAAGGCTAG AGCGCCGCTT TTTGCCACTG GTGCCCAAGG TGCCCACTGC	120
AGTGTCAAGAC TGGCTGCCAT CATTCTTCTC CAGTGAGCAC ATGTCTCAC TGATGCTGGT	180
GCTTTTGTC ATGTTCTTCC CTGATATGCC CATTGCTCG CTTTGCAATT TGATGTAAG	240

GACACTGTCA GCCGATGGAT CATTAAAAGT GAGGACAAGA GTAAAAAGGA AAAGACAGAA 300
 AATGCATTT AGATAAAACA TTTGGAGTAT AATTTAGGCC ATGAAGGCCG AATTC 355

(2) INFORMATION FOR SEQ ID NO:1332:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 438 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1332:

GAATTCGGCC TTCATGTGCG GTGAAGGTCC TGTGATTGTA CAGTTAGCAC ATTTTATATG	60
ACAGTATAAT CTTAAAAAA AACATAGAAA CAGAACATT AGAAACGTAA GTCACAGTTT	120
GTGAGTATGT CATTTCAGG GAAAAAATAA AATATAGTAA CGATTTATGA GGCCCCAAAG	180
TTTTATATAA AAATGAAAAA GCTGTTGGC AGTTAGGACT GACTGTAGCC TTCTGTCAA	240
TCAGTCTTGA CAACTGTTAA AACACATTAT CATCACAAAT AGGGCTGCAT TTCACCTGT	300
CTGTCAAATA CAATCAATAT ATATGACTTT AAGAAAGTGT GACCATTTC CCAGAGTGAC	360
ACCAACAAGA TGGTGGAAATA GGAATTTTG TTTAACTTTA CTCACCTCAC AGAAATCCAA	420
CTAGCAACTA ACCTCGAG	438

(2) INFORMATION FOR SEQ ID NO:1333:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 309 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1333:

GAATTCTAGC CCCACCCACT TTCTCAGACA TCCCCACCGG AGGATCCCCT CAGTCACAAT	60
CCTCACTAAT TAGACCATTG AAATTCCCA AAATAAAAAA AGGGAAAGAG GTATAGACTT	120
ATCTTAAGGG TCTTAAGTTC TGGCATTTTT CTATTTAATA ATATATATTG CTATAAAATG	180
GAATTACTAC CAAAATTAG AAAATTTT AGCAGAAAGAT ACAGCCCTAA TCTTACCACT	240
CCAGTACAAT CATTATTGAC ATTTATGATG TACTTCGTTA TAGTATCAA ACAATTCCAG	300
TATGTGAAC	309

(2) INFORMATION FOR SEQ ID NO:1334:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 243 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1334:

GCGATTGAAT TCTAGACCTG CCTCGAGCTG CCGTGTGTTT CATTTAATT GTGTGACATA	60
AAATGTAAAA TGTACCCCTCT AAACCATTTT TTAGTGTCCA GTTTTGTGGT ATTAAGTACA	120
TTCACATTAT TGTGCAACCG TCCCCACCAT CCATTACAG AACTCTTCA ACTTGCAAAA	180
CTGAAACTGT ATGCATTAAG CAATAACTAT CCCTTCCTTC TTTCTCTTC CCCAGAGCTC	240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1335:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 280 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1335:

GAATTCTGGCC TTCATGGCCT AATTCTGGGA AAACTGAGAG AAAAATCTGA GGCCATCCAG	60
AAGGAACCTAG AACAGACCAA GCAAAAAACA ATCAGTGCAG TTGGTGAGCA GCTCTGCC	120
ACAGTCGAGC ACCTCCAGCT GGAGCTGGAT CAGCTAAAGT CAGAGCTGTC CAGCTGGCGA	180
CACGTGAAGA CCGGCTGTGA GACAGTGGAT GCCGTACAAG AAAGAGTGGA CGTGCAAGTC	240
AGAGAAATGG TGAAACTCCT GTTTCCGAA ATAGCTCGAG	280

(2) INFORMATION FOR SEQ ID NO:1336:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 281 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1336:

GAATTCTGGCC TTCATGGCCT ATAGGCCATG AAGGCCGAAT TCGGCCTTCA TGGCCTAGAC	60
TAATCTTACT GTAGAAATGA TGTGAGATTC TTGTTTGACT ATTTTAGAGC AGATTCTGGTA	120
TCTAATGGGA TTCCATCTTG ATGTACAGAG CACCTTCTAC ATAATGAATT TTGCAATTCA	180
GATGGATGAA GCCTTTAACCA CAGACAGAAAT TTAAAGTATT GCATATTCTT GGAAGAAAAG	240
CATTGATCAC ATCCTCCTTA GATATTAGT AATACCTCGA G	281

(2) INFORMATION FOR SEQ ID NO:1337:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 172 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1337:

GAATTCTGGCC TTCATGGCCT AATATTTAGG TAAAAAGGTA AACTAGTACA CCTACCAGAA	60
AAGATAAAATA TTAATTTATT GCATCTCTGA CATGAGAAAA AAAGCCTTTA TGTTTTACTG	120
TTTTTTCTA ATTTTTCTT TTCTTTTTTT TTTCACATG AATGTTCTCG AG	172

(2) INFORMATION FOR SEQ ID NO:1338:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 235 base pairs
 - (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1338:

GAATTCCGCC	TTCATGGCCT	ACTGTATTTC	ATAGTGAAGT	GTTCATAAAC	TAAAGAGTCA	60
TTGATTTGGT	TTCCCTGGCTA	ATTAATCT	GAATTCCATT	TGAAGTTCCA	TTGAAATCAT	120
GGTTTTACTC	TATAGCAGTG	GATGTTTTT	CCCAACCTTT	CTGATATTTT	TTTCCTTCCT	180
GAGACAGGGT	CTTGCTCTGT	CACCTGGGAT	GGAGTGTAGT	TGCACCAAAC	TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1339:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 148 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1339:

GAATTCCGCC	TTCATGGCCT	ACTTGTTTTT	AAAGGCATAT	GTTGTTTAT	TGTGCTTCAC	60
AGGTACTGTA	TCTTTTTTA	CAAATCTAAG	TTTGTGGCA	ACTCTGTGTC	AAGCAAGGCT	120
ATTGGCCCCA	TTTTCCCAAC	AAGCACGC				148

(2) INFORMATION FOR SEQ ID NO:1340:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 257 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1340:

GCCTGTGTGA	AGTTTGACT	TTAACCTACC	AGATCACTCC	TTCACCCCTCC	ATAAAGATGT	60
CTGAACCTGA	CACTTCCTCA	GGATTTCGG	GAAGTGTGGA	GAATGGAAC	TTTCTTGAGC	120
TGTTTCCCAC	ATCCCTGTCC	ACGTCAGTGG	ACCCATCCTC	AGGCCACCTG	TCAAACGTCT	180
ACATCTATGT	GTCCATATTC	CTCAGCCTTT	TAGCGTTCT	GCTTCTGCTT	TTAACATTG	240
CCCCCCAGAG	GCTCGAG					257

(2) INFORMATION FOR SEQ ID NO:1341:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 259 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1341:

GAATTCTGGCC TTCATGGCCT ACTATAAAAGT ACTCTCGCTG GTATTGTCAG TATGTGTGTT	60
AACAAACAATA CTTGGTTGTA TATTTGGTTT GAAACCAAGC TGTGCCAAAG AAGTTAAAAG	120
TTGCAAAGGT CGCTGTTTCG AGAGAACATT TGGAACACTGT CGCTGTGATG CTGCCTGTGT	180
TGAGCTTGGAA AACTGCTGTT TAGATTACCA GGAGACGTGC ATAGAACCCAG AACATATATG	240
GACTTGCACC AAAACTCGAG	259

(2) INFORMATION FOR SEQ ID NO:1342:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 268 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1342:

GAATTCTGGCC TTCATGGCCT AGTCCTTGAC TCTGGAGTTT TACAAAGCAG TCACATTTCA	60
AATAAAAAGTC TGGGAAAGCA ACACATCATC GCCAACTTTT AATTTTGCTA AATAAGGATA	120
TTAGAAAAAG AATAGAAAAT TGCAGTCCT TACTGTTTAA AGAAAAACCA AAAGAAAGTTA	180
AAAAAAAAAAC AACCTCATTA TGTGTCTTT GTTTTGTTT GTTTTTCTTT CCTTGGAAAT	240
CAGTGAAGT TTGGTCAGCC ACCTCGAG	268

(2) INFORMATION FOR SEQ ID NO:1343:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 241 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1343:

GAATTCTGGCC TTCATGGCCT AGCCATTAA TATACTAAAA CAGTGTGTA AATTAACCTT	60
GGTACAAATT GCCAGTCATC TCTAGATCAT TTTAAGCATT TTAAGAATAT TTATTATCAA	120
TCTAAGTACA GAAGAATAAC TGCCAGCAGT GATTATTGTC TTTGGATTAG AGTTTTTAAA	180
AATCCACCTC ACTGAAATGG TTATGTCAT CACAGTTGTC AAGGTTGTC TGTTCTCGA	240
G	241

(2) INFORMATION FOR SEQ ID NO:1344:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 313 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1344:

GAATTCTGGCC TTCATGGCCT ACCCATTCCCT TCCTTCCTGC CTGGCCTGGG CCCCTCCTGC	60
ACAGATGGCC TAGGTACCCA GCCTGGAGGC CAAGGCTGGA TTCCCAGAGT CTGCCCTGGT	120
GGAGTGGAA TAGCAGGTTC TCTGCAACTC AGGGGAGCTG CCCTGCAGGG CTTCCCCACAT	180
GTGCTCAGGC CCCTGTGCA GGTCTGGTGA TGCTTCCTCC TTGCCTTCA GGATCTCCTA	240
TTGCACAGCA GACAAGATGC ACGACAAGGT GTTGCATAC ATCGCCCAAGA GCCAGCACAA	300

CCAGAGCCTC GAG

313

(2) INFORMATION FOR SEQ ID NO:1345:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 327 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1345:

GAATTGGGCC TTCATGGCCT AGGCTTCTCT TCTGAATTGA TTGGTAGTGT TGTTATTTTC	60
TTGTTATTCA GTTTAACAG TACATAATCA ACATCAGTGC TTGGGAAGTC AGGAGTACGA	120
GAGATAAAATA AGAAGTATAT GATCTTTCT CTTATTTCT CTCAGTATAA GTGGACCTG	180
TTTTCCCTT CATCTTTT TCTTCAAGAA CATAATATCG GCTGAAGTGG AATGAGTATT	240
CAAATTGTCC AAAAAAAATAT ACAAGTGAGG GAATTAATAA AATTTTTGT AATTATAAAT	300
ATGTATATAT TGGGGGGCAG TCTCGAG	327

(2) INFORMATION FOR SEQ ID NO:1346:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 189 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1346:

GAATTGGGCC TCATGGCCTA AATCCTTGA AATACAATGA GACTCATCAG AAACATTTAC	60
ATATTTGTGA GTATAGTTAT GACAGCAGAG GGTGATGCTC CAGAGCTGCC AGAAGAAAAGG	120
GAACGTGATGA CCAACTGCTC CAACATGTCT CTAAGAAAGG TTCCCGCAGA CTTGACCCCA	180
ACACTCGAG	189

(2) INFORMATION FOR SEQ ID NO:1347:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 262 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1347:

GAATTGGGCC TTCATGGCCT AGTGGGCTTC AGGAAAGCAA AATATAAATA TTATGGTTAA	60
AGAATTAAATA ATTAAGATT CACCCATAAT TCTTAATACT GTGTTGACAA TCATGGCTGC	120
ATTGTCTCCA AAAACAAAAG AAGATGGATC CAAAGATACG TCTAAGGAAA TGGAAAATCT	180
TTGGGGTATC AAATCGATTA ATGATTATAA CACTTGGTTT CTTGGTGGT ACACGGCAAC	240
AGAAATAACG GAAAAGCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:1348:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1348:

GAATTCCGCC TTCATGGCCT AGTAATGTTA AAACAAACGA AATAAAAATA GAAGGAAAAA	60
CTTCTGAGT TTCAAAAACA ACAGACTAGT ACTCTAAAGA ACTCTTTAAA ACAATTAAC	120
GTTAGGATTG CAGTTATGAT TGGATATTAT TTAATTCTGT TTCTGATGTG GGGTCCTCC	180
ACTGTGTTCT GTGTGCTATT AATATTACCG ATTCAGAAG CCTCATTCAG TGTTGAAAAT	240
GAATGCTTAG TGGATCTGTG CCTCTTATGC ATATGTTACA AATTATCTGG AGTCCTAAT	300
CAATGCAGAG TTCCCCCTCCC CTCCGCGCTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1349:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 553 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1349:

GAATTCCGCC TTCATGGCCT AGGAAGACAG ATTCACAGA GAGTGGGTTT CATGTTAAAT	60
GTCTGATTTG CTTGTCGGAT GCCCCCCCAA GGACACTAGG TTTTGTGGC CAATGTGTTA	120
TGTGTGTATG TAGGCAAGCA GGAGGGGGTG GGTGGGCTTC TTTTTTTTTC TATTTTTTTC	180
TTTTCTTTTG TGGTTGTGGA AGAACACAGT TAACCCCTCT AATTCTTTA AAAAGACATA	240
AGGTTTGAAA AGGAGATTTT AGGAAGAACG AAAAGAAAAA AAATGGGATA CATATATTGC	300
ATCTGTAATC CAATCAAGCT GTCACTGAAG ACAAACTTGA TCTCTGTTCT CACCAAGTTGA	360
CACACTCATC AGGCTATAGG TCAACTCTAA GTGTGGTGAC AGGTGATGGA CTCTATGCCA	420
ATTCTGATAC TGAATTTCT TTTGCTTATT GAAGCTTCAT TTTGTGTGTT TTAATTATGA	480
AAGTATAGTA ACACCTACCA TGCATACCA AGCAATATCA ATATTTCAA ATGCATCTTC	540
CCCCATTCTC GAG	553

(2) INFORMATION FOR SEQ ID NO:1350:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 246 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1350:

GAATTCCGCC TTCATGGCCT AGGTTTTGT TGGTTGTTTT TAAAGGAGTT AGACATAGCC	60
TAACAAACTG GAAATTGACA TTTCCATCTA TTTTCTCCC TTTTGAAGCT AAATATGTCT	120
TTGTTATTTT GGTCCTAGT CCCCATTACT ACTTATTTTC TGATAGTTCA TCCACAGCAA	180
CTTCAGTCAG TTAGCTCACT AGTTCTTATG GCTAGAGATT CCGCCAGTTT TCCCTAAAA	240
CTCGAG	246

(2) INFORMATION FOR SEQ ID NO:1351:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 231 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1351:

AAAGAAAAAA TAAAAAAAAA AAAAAAAA GGAAGTGTAA TGTCAGACAC ACAAGAAAAG	60
CAAATCAGTG TTGTAAGCTT AAAGTACAAT TTCAAAAGGTC ATTACCAACA GCAGGGTTTT	120
TTTTATACCTT TAAAAACATT ATGCTACATA TCATTGCCAT TTTCATATTT TGGGGTTTTG	180
CTACTCTTAT ACAATGGAAT CAATGGAAAT GTCATCCAGC CAGATCTCGA G	231

(2) INFORMATION FOR SEQ ID NO:1352:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 260 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1352:

TGAATTCTAG ACCTGCCTCG AGTTGCTCCC AGGAATAGTC CAAAGGAGCT GCTCTTGC	60
CTTTATACAC AAGGCCAGC AACCAAAACC CTCCCTCCTG GCAATAAGGC CTCACTATAG	120
TTGCCCTCAT GCTTCCTAAAG CTCTCTCTTG CTCTAATAAC TCTAATTCTG GGCCAAGGCC	180
AAGAGTGCCTA TTCTTTCTTC CTAGCTGGGG ATGGAAAGCT GAGAGGGCA CAAGGAGGGC	240
AAAAGTATCA CCCTATCGAG	260

(2) INFORMATION FOR SEQ ID NO:1353:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 482 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1353:

GAATTGCCT TCATGGCCTA CTTTCAAGT GAATGATTG GTGTTGAAC CTTCTTGATT	60
ACCTTAAGAG GGAAAAATGA AGGAGAGGAG GGAACCATCA TCACATAACCT TTACAGTTGT	120
GGAATGTTAG CCCACTATAG TGTAACTA AGGAAAATCT AATATAATAC ACTCCCAAGT	180
GATCTGAAAT GATCCGCTAT TCAGAATTCC AGAGAAAGAC ATATCCCTGC CAGAAGGGTG	240
TCCTTCATAA CCAAATTGG TCTTCAGTCT GGTCGGTGCA TACTCAAACA GGAATCACTT	300
CCCTTAAGGA ACCTAAGGTA TGCAGTTGAG ATCAACTTAT TCCTTTTGAA TTTGTCCCCCT	360
TAAAGCATCA ATCAGACGTG AATGCATCTT GTGACTTGGG GTTACTAGTA ATATTGAAAT	420
CTGAAACTTG GGGGATCTTT GAAGACACAT GGGATTAAAAA GCTGCATAAT ATACATCTCG	480
AG	482

(2) INFORMATION FOR SEQ ID NO:1354:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 339 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1354:

GAATTCCGCC	TTCATGGCCT	AATACCCAAA	ATTGGCATGA	CTACTTATAA	AATAGTGCCT	60
CCCAAATCCT	TGGAAATATC	GAAAGACTGG	CAATCAGAAA	CCATAGAGTA	TAAAGATGAT	120
CAGGACATGC	ATGCTTTAGG	AAAAAAGCAC	ACTCATGAGA	ATGTGAAAGA	AACTGCCATC	180
CAAACAGAAG	ATTCTGCTAT	TTCTGAAAGC	CCAGAAGAGC	CACTGCAAA	CCTTAAACCG	240
AAGCCTAAC	TGAGAACAGA	GCATCAAGTG	CCCGAGTTCTG	TGAGCTCACC	TGATGATGCC	300
	ATGGTTAGTC	CTCTGAAACC	TGCTCCAAA	AATCTCGAG		339

(2) INFORMATION FOR SEQ ID NO:1355:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 203 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1355:

GAATTCCGCC	TTCATGGCCT	ACTTTAGAT	GCTTTACATG	CATAAATTCA	AATAATACAT	60
TAATAACCTT	CCATACATCT	TTCTTGTGT	ACACGTTACT	ATTTCTGTAA	GATAGATTTC	120
AAAAAGTGG	ATTTCTAGGC	CAAATGATTT	ACACTTTTT	TGTTTGTGTT	TTTTTTGTT	180
TTTTGAGAC	GGAGTGTCTC	GAG				203

(2) INFORMATION FOR SEQ ID NO:1356:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 516 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1356:

GAATTCCGGCC	TTCATGGCCT	AGGAGAATCA	GGCAGGGAGG	TTGCAGTGAG	CCGAGATGGC	60
AGCAGTACAG	TCTAGCTTCG	GCTCGGCATC	AGAGGGAGAC	CGTGGAAAGA	GAGGGAGAGG	120
GAGACCGTGG	GGAGAAGGAG	AANGAGGGGG	AGGGGGAGGG	GGGGAGAGGG	AGAGGGACAA	180
TGATGTCTTG	CTGTAGGTAT	TCTTCCCCAT	TTGAATTTTT	TCCTCAGCAT	TATTTTTTTT	240
AACATCATT	AGTCTCCTCT	TATACTACAC	TTGGATTGAA	TTTAATATCT	CATGAAGAAA	300
AAACATTTCT	ACTTTGAAGC	ATGTGAATTA	GCATGTTTTT	ATAACAGCTT	TATTGAGATA	360
TAATTACAT	ATATAAATAA	ACCGTTAAA	GTGTATAAAAT	CAGTGGTTTT	TAATGAGATA	420
TAATTACAT	ATATAAATCA	ACCATTAAA	GTGTATAAAAT	CAGTGGTTTT	AAAAATATT	480
ACAATGTTGT	ACGACCGTCT	TCTCAGTCAA	CTCGAG			516

(2) INFORMATION FOR SEQ ID NO:1357:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 405 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1357:

GAATTACTAA	TCAAGAAAAA	ACAAAATCAC	AAATCACTAC	CAAAGCAGTT	CATTGTCAAT	60
AATTTTTTC	CCTTGTATT	TTGTTTACTT	TTTGCAGACC	CTGAGCATAAC	ATCCAAGTTG	120
CCCTAAATAT	ACGCACACCT	GAGGTTGTCT	TTATAGGAGC	TTTATGGTTG	CAAGTTTTGT	180
GTATAATCTT	TAATCATT	GAGTTGATTA	TTGTGTATCT	AGTACCATAA	GAGTCCTGTA	240
TTATTCTTT	GCATATGGAT	ATCTAGTTT	GGAAATCTTC	CCCGTTGTGT	CATTTGGTG	300
GTGTTTGAA	AAATGTGTC	ATTCCATATA	AATTGGTTGTT	TATTATCGAG	CACATTCAATT	360
TTGCTCACTG	GTCTGTGTTT	CTCTGTGTAC	GCCAGTAACC	TCGAG		405

(2) INFORMATION FOR SEQ ID NO:1358:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 328 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1358:

CTCGAGTCTG	GCTTTGTTTC	AAAATGATTA	AGATTAATAG	ATGAAATAAT	ATTTTATAGC	60
CACTGCATTG	GATACTGGA	TTGTTTTCA	AGCATCTTCT	TATGACTAAA	TCTCTGTTT	120
CATTCTGTTT	TAAATCTAAA	AAGTAAAATG	ATGGTCACTT	GGAATCTGCT	CTATATTTTA	180
ATTATAGTCT	CTTCTGTTA	TAAACAAATAA	CTTACACATA	TTTTCATAG	TTTTAAGTAA	240
AGATTAATAA	ATGCCATCTT	AGAAAGGATC	TGTTAACCT	ATATTATAAA	AGTTAGATAC	300
ACAATTTAG	GCCATGAAGG	CCGAATT				328

(2) INFORMATION FOR SEQ ID NO:1359:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1359:

CTCGATGGCC	TAAGGCAGTC	TCCTGGAAGC	ATGACATTGA	TGCCCTGGGC	TCACCTCTTT	60
GTTTTGTGTTT	CCTTCCACTT	TAGCGGGAAC	CACATCTTCA	AGGGCCGTGC	TGCCGGCATA	120
GCAGTGAATG	AGAACGGCAA	AGGCCTCATC	ACAGGTACGG	ATGGGAAC	CCTGGCACCT	180
GGCAGCCAGG	CCAAGGTCCC	CTGGCGTCAC	CCCCCAGCTT	CAGGACCTCT	AGGCCATGAA	240
GGCCGAATTC						250

(2) INFORMATION FOR SEQ ID NO:1360:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 206 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1360:

GAATTCTGGCC TTCATGGCCT ACGATTCTAT TCCCTTATCT GCTTCAGAG CTATTTAAGA	60
ATCAATGTCT TATTTTCCT GAGTCCTTAAACCTTATT CATATTTCA ATTGCTGATG	120
CCTCTTGAG CTACGAGTTC TACTTTGTC ATAACGTTGA GGAATTCTCA CGTTTACTGT	180
TTCTCCTTAC TTCACATC CTCGAG	206

(2) INFORMATION FOR SEQ ID NO:1361:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 377 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1361:

GAATTCTGGCC TTCATGGCCT AAGAAATCAA CGTTGAACCC TAATGCTAAG GAGTTCAATC	60
CTACAAAGCC TCTGCTGTCT GTGGTGAGCT GGGACAGGAG AATGTGGACT TTGGTTCTG	120
TGGGGAGACT TGGGCAGTGC TTATAGATGA ATAGGGGGAG GAACACTTCA CTTCCAGGAC	180
CACTTGCCTG GCAGGCAGTG TGAGGAGATG TCATAAAAAT GTAAGGATGG CACCTTGAGG	240
GCTGGCTTGG GGAAAATGGA CTCAGGTCTC TAGGTTGGG TGATCAGGGA TCCCAGTGAG	300
TCTGATGAGG GTTAAACAGG CTTTTCTTTG GTTCTTGGCA TTTGGCTGAG GGAGTATTGG	360
AGTGGGGATA CCTCGAG	377

(2) INFORMATION FOR SEQ ID NO:1362:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 264 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1362:

GAATTCTGGCC TTCATGGCCT AGTTAAAGGC AAGTATGTCA TATTACTGAG GCTACAAGTT	60
AGTCAGCAGA TGAGTGCAG TCCAGCTTT TCTGGTATGT TATTGTTAGA AATATTGAGT	120
TCTAATGTTA CATCTGAGGA AGTATGTAAT TTGAGAATTG TAACTTCTAA GGGATTCACT	180
GCATCATAGC TATGCCGTAA TGGAGTCTAA CATATGACCA ATACCAACCC ATAATCCAGC	240
ATTGAATTCT AGACCTGCCT CGAG	264

(2) INFORMATION FOR SEQ ID NO:1363:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1363:

GAATTGGCC TTCATGGCCT ACCCCTCCCC TAGTTCCAGT CCAGGTAAAC AAAAATTGAT	60
TCTATTTTT CAAAACACCA GCCCCTTCAG ATGGCCTGGT TAATCTTCAT TAACATGTTA	120
TCTTCATTAA CATGTTTATC TTCATTAACA TATTCTCAG TGATAAGAAG GGCCCAGGGT	180
TCAACATCCC ACTTTGCATC CATGCAGACA AGGGCTGTGG GAAGCTGAA AACTGAAGAG	240
GCGGTGAATC CAGGAGGGAT TCCCCAGATA TCCGTGAGTT GGTGTTGAC TTTCTTGAAC	300
ACGTCTTCC TTTACTTTAC ACTTCCACTC GAG	333

(2) INFORMATION FOR SEQ ID NO:1364:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 358 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1364:

CTCGAGGGT CATGTTGTTG GGGAGAAAAGA GACCACATCA CACACAGAGA GAACAAGTCT	60
GTATTAGTTG CTTTGCTAC ATAACAAACC ACTCCAAAAT TTAGTGGTTT AGAACAAATCA	120
CCTATTTAGT TAATGATTCT CTGGGTGCA ACTTGGTCTG GGATCAGCTG GGCAGTTCTT	180
TTGCTGGTCT CAGCTGGGTT CAGCTGCCCTA TCAGCTAGGG AGCTCTGTTT CAGAGGTTGG	240
TTGGCTATGG GTGGCAGGGA TCAAGGATGA CGGAGCCATG TGTCTCTTTT CCCTTTATTA	300
CCCAGCAGGT TAGCCCAGAT CTTTCCCTT TCTTCCCTAG GCCATGAAGG CCGAATTC	358

(2) INFORMATION FOR SEQ ID NO:1365:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 292 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1365:

GAATTGGCC TTCATGGCCT ACTTGTTCAG GGTATGGGC TAGGATGAGA GAGAATNCCA	60
CAGAGTATGA AGGAAGAGTG ATAGATCCAG ATGAGATACA GCTCAGAGTG CCACGCCCCC	120
AGAAAGAGGA ATCAGGCAAG TACTGTCCCA AGGCAGCTGG AGGGTGAGGG CTGAGTGCC	180
TGGCTTCCTC ACTTGGGGAG ACCATGGGTC TCTGTAGAAA TTCCAATATA AAGGCAGGG	240
AATTGACTG CATGGAGTCT TCAGGTAGAA ATGTTCTCT TGCTCAAATT CA	292

(2) INFORMATION FOR SEQ ID NO:1366:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 335 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1366:

GAATTGAGCA AGATAACCTGG GTCATGATCT CTGAACAGGG TGAGAAACTT TATAAAATGA	60
TGTGCAGACA AGGAAATCTG ATCAAAGACA GAAAAAGAAA ACTGACTACG TTCCCTAAAT	120
GCTTTCTTGG AAGCGAATT GTGTCACTGC TGGAGAGATT CACAGGCCTG	180

AGGAAGGCGT GCACTTGGGA CAAGCATTAT TAGAAAATGG AATCATTAC CAGTTACTG	240
ATAAACATCA ATTCAAACCA GAACAGATGT TATATAGATT TCGCTATGAT GATGGAACAT	300
TTTATCCAAG AAATGAGATG CAGGACGTTC TCGAG	335

(2) INFORMATION FOR SEQ ID NO:1367:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 383 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1367:

GAATTCCGGCC TTCATGGCCT ACTTTCTCTG TTGCGCTTGA CCTTTCTTT TCATGTTAAA	60
GCCTTCTC AAATGTCCTGA TTACCCCTGG CTGCCCGTCA TTTAAGAAAG CGCCACTAGT	120
CAGCTCATCG GAAGCTGTGA GGGAGAGGGC TGCAATTGGT CCTGCCAGGT GGAGGAACAC	180
TCAGGCATCA GTACTAGGAG GTCTTCTCTC TCAGCCCATT GGATTTCCCT AGAGTCCTAC	240
ACGGCTGGGA TGAGGCACCT GGGTGCTGAG TAGAGGAAGG GAGTCATGGG TCAGTCACCC	300
TGTATGCAGA TTTTCACACA ACCCCCTCTC TCCAGGACAC GCCTCGCCCC CCACCCCTAAG	360
TAATGCAGAA CCCAAATCTC GAG	383

(2) INFORMATION FOR SEQ ID NO:1368:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 347 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1368:

GAATTCTTAT GTGACTGCGA TGGATCTCTT TGTTTCTGTT TGTTTCATTT TTGTTTTTGC	60
AGCCTTGATG GAATATGGAA CCTTGATTA TTTTACCAAGC AACCAAAAAG GAAAGACTGC	120
TACTAAAGAC AGAAAAGCTAA AAAATAAAGC CTCGATGACT CCTGGTCTCC ATCTGGATC	180
CACTCTGATT CCAATGAATA ATATTCTGT GCCGCAAGAA GATGATTATG GGTATCAGTG	240
TTTGGAGGGC AAAGATTGTG CCAGCTTCTT CTGTTGCTTT GAAGACTGCA GAACAGGATC	300
TTGGAGGGAA GGAAGGATAC ACATACGCAT TGCCAAACTG ACTCGAG	347

(2) INFORMATION FOR SEQ ID NO:1369:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 243 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1369:

GAATTCCGGCC TTCATGGCCT ACCATTTCT ATGAGCAGAG GAGAGTCACA GGGCATCATG	60
TGTTAGGAGA AAGAGGCTGG ACTTTATCTT GTCAAGTAATG CTGGATGATA CAATAAGGGT	120
AGGGCCTCAA AAAGTAAATG TAAAAATGAT ATTGGCACA CATTGAGGTG AATAGAGGCT	180
GGAGAAAGGG AACCAAGTCA CTATGTATTG GAATAATTCA AGTATAGGCC TGGGATACTC	240

GAG

243

(2) INFORMATION FOR SEQ ID NO:1370:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 256 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1370:

GAATTCGGCC TTCATGGCCT AGAGGATTAC TTATTTCTCA GCATTCATCT GGTAACCTAA	60
GCAGCATGAA GCAAGAGTTG CACTTTAAA AATGACAAGA AAATAGCTAT TCATTTAGTC	120
GACAGAGTAA GGCCCCATCTC ATTTCCAGGA TCACTAGTTT CTGCTTATGA CGGGGTGAGC	180
ATCCGCCAGC GCGGTGATTG GGAGGCGCC CTGTGTCTTT AGGCTGAGGC AGTGCCATA	240
GCTGCACTGC CTCGAG	256

(2) INFORMATION FOR SEQ ID NO:1371:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1371:

GAATTCGGCC TTCATGGCCT AGTGTAGCAA GCTTCCCCCTT TGGGAGGGAT GTGAGAACAG	60
AAGACTGAGG ATTGTCTCTA ACTCTAGGAT TCTTGATGA TTGATTGGAT TGGGGTTTG	120
TGTTGTGTCT AATATTACGG ATGCTAAAAT GCCTGTACTT CCAAGGTGAT AGCCACCAAT	180
AACCATAACAC GTACTAGTCA TCCTAGAAGT GTTTTATTT CTTCTGTTGG TTATCTTCCC	240
TACCCCTAGG GTTGGGTGCT GTTCTCTGCT ACTTCAGGTT GGTTTCCCAC TGGGAGGCTT	300
CTGCTGACAG AAAGCCCCAT GCTTGCTCG AG	332

(2) INFORMATION FOR SEQ ID NO:1372:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1372:

CTCGAGGGCA ACTGCAGAAG AAAAGATCAG TGAATCTGAT GACATAGCAG AAGAAACTAT	60
CTAAAGCGAA GAAGACAGGA AAAAAAGCCC CAATGTGAA TGAACAGATC ACCAGTGAGC	120
TGTGGAACAA CCTATATGGG TTATAGGAGA CCCTAAATGA GAGAACAAAGG GACTAAAAGA	180
AGGATTTAAA GAAATAATAG TACAATTTC TCCAAGTTTC ATGAAAACCG ATTGAATTCT	240
AGACCTGCCT CGAGGCAGGT CTAGAATTCA ATCGC	275

(2) INFORMATION FOR SEQ ID NO:1373:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 350 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1373:

GAATTCGGCC	TTCATGGCCT	ACAAGACCAT	CCTGGCCAAC	ATGGTGAAAC	CCTGTCTCTA	60
CTAAAAAATA	CAAAAAAATT	AGCCAGGCAT	GGCAGCGTGT	GCCTGTAGTC	CCAGCTACTC	120
AGAAGGCTGA	GGCAGGAGAC	TTGCTGAAC	CCAGGAGGCA	GAGGCTGCAG	TGAGCCGAGA	180
TCGCGCCATT	GCACCTCCAGC	CCGGCGACT	GAAGAGACTC	CATCTCAAAA	AAAAAAAAAAA	240
AAAAAGATGA	GCCTTTCTG	GGAAAGTGGA	AAAGACAGAG	AAGCCTCCTG	ACAGCCAAGG	300
AGACCAGCAG	CCAGTAGAGC	AGGTGTTGTA	ACAAGGCCGA	GGCCCTCGAG		350

(2) INFORMATION FOR SEQ ID NO:1374:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 273 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1374:

GGAAAAATCA	AGGAGACATA	TTACCACCAA	AAGAACATA	ATTTCTAGA	AGCTGCAAAT	60
AAATAGAGAC	TATACACTGC	CTTACAGATA	ATTTAAAGTA	ATTGTTTAA	GGAATCTCAG	120
TGAACCTCAA	GAAAATACAG	AGAACATCGTT	CTATGAAATC	AGGGAAACAA	TAAATCAACA	180
AAACGATAAA	TTAACACAGT	TGAAATCACT	AAAAGAACCA	AACAAATTAA	GGGGCTAAAG	240
AATACAATGA	ATGAAATGAA	AAATACTCTC	GAG			273

(2) INFORMATION FOR SEQ ID NO:1375:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 332 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1375:

TGTGGACTAA	AAAAGATGCT	GGGAAAAAAG	TTGTTCCATG	TAGACATGAC	TGGCATCAGA	60
CTGGAGGTGA	AGTTACCAT	TCAGTATATG	CTAAAAACTC	ACTTCAGAA	CTTAGCCGAG	120
TAGAACGAAA	TAGCACATTG	TTAAATGTGC	ATATTGTATT	TGAAGGAGAG	AAGGAATTG	180
ATCAAAATGT	GAAATTATGG	GGTGTGATTG	ATGTAAGCG	AAGTTATGTA	ACTATGACTG	240
CAACAAAGAT	TGAAATCACT	ATGAGAAAAG	CTGAACCGAT	GCAGTGGCA	AGCCTTGAAAC	300
TGCCCTGCAGC	AAAAAGCAG	AAAAAACTCG	AG			332

(2) INFORMATION FOR SEQ ID NO:1376:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 349 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1376:

GAATTCCGGCC TTCATGGCCT AGGCTTCAGC AGCTTCCCTAC GATCAGCCGA AGAAAGCAGA	60
AGCTCTGGAG GCTGCCATCG AGAACCTCAA TGAAGCCAAG AACTATTG CAAAGGTTGA	120
CTGCAAAGAG CGCATCAGGG ACGTGTTTA CTTCCAGGCC AGACTCTACC ATACCCCTGGG	180
GAAGACCCAG GAGAGGAACC GGTGTGCGAT GCTCTTCCGG CAGCTGCATC AGGAGCTGCC	240
CTCTCATGGG GTACCCCTGA TAAACCATCT CTAGAGAGGA CATCCCTGCT GGGCTGCTGT	300
GCAGAGTATA AGATTTGGA CTTGTTCATG TCCCCTCTCA CCCCTCGAG	349

(2) INFORMATION FOR SEQ ID NO:1377:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 437 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1377:

GAATTCCGGCC TTCATGGCCT AAATATGTTG AAATAGGTTA GAAAAGGAGG TGAATATTAT	60
GGGCTGTTGT CATTGTAAGA TTCTGCAGTA ACTTCAGCGT TGAGGGTTTT TTTTGTTTTT	120
GTTTTGTTT TGAGTTTGTC TTACTGAAAT CAAAGAGITG TTACTCTGTC TGTGGGTGTT	180
TAAGAGACAG GATCTCACTC TGCTGCCAG GCTGGAGTGC AGTGCAGCCA CGAATGCCTG	240
GGCTCCAGGC CCTCCTGAGT AGCTTAGGACT TACAGGCATG CACCACCACA CCGATTTTTT	300
TATTTTTTTA TTTTTATTTT TTTTAGTTTT TAGAGGTGGT GGGGGGGTCT CACTGTGTCT	360
GCTTCTGGGC TCAAATGATC CTCCTGCCTC AACCTCCCAA AGTTCTAGAA TTACAGAGGT	420
GAGTCACCAC ACTCGAG	437

(2) INFORMATION FOR SEQ ID NO:1378:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 267 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1378:

GAATTAAAGC ACTGCCTCTA TTCAGGCTGC CGAGGCCTTG CTTTAATTG TTGAAAGATT	60
CACCGCGTCT TCTTGGATT CAAGAAAAAT CCCGTTAAGA ATTGAGGGGC TCTCTTCTTC	120
CCCTCCTGAC GTGAGTGTAA CTCACTTCCCT GGTATGTCTC CTTTCTTTT GGCCATACATC	180
CTTGTCTGT TAGGTGCTTC CACATCTTA TGTCTTAAAT GGCCAAAATA CGTCACCCCC	240
ACTGCCAAA CAAACAGATC ACTCGAG	267

(2) INFORMATION FOR SEQ ID NO:1379:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 305 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1379:

GAATTGGGCC	TTCATGGCCT	AGAGGTGACT	AGAACGCAAG	ATGGAGGTGG	CGCAGCACCT	60
CATCCCAACT	CATGCCACCT	GGGAAAGCAG	CTTCAGGCCT	TTCTGTTGTA	ACCTCAGCAG	120
AAACTTGGG	GTTTATCCTT	TATCTGCAC	ATGCCCCAGG	GAGGTAAAGG	GACTTGCCTA	180
GGTCATGTA	CAAACTTCT	GCTTCCAGAG	CAGGACTTTA	TTGGGACACC	ATAAGGTTGA	240
GGCTGGGAGG	TACCCAAGAA	TTCTGGGGA	TGGTATGTCA	TTGACTGTGG	GTAGAGGGGC	300
TCGAG						305

(2) INFORMATION FOR SEQ ID NO:1380:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 206 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1380:

GAATTGGGCC	TTCATGGCCT	AGGCTTGGTT	GCCTCTGAAA	GGAGGGAAAG	TCTCTTGGTA	60
AATTATCTCT	TTTGTGCTGT	TTGCTGTTTC	TCTGCTACCG	TCTTTGCAGT	TCTCCTCTCA	120
CTGGTTGCAG	GCTTCATAG	TAAGGTTTGG	CGAGAAATGT	TCCAAACATC	ACATTTGGA	180
TTCTAGGCTG	TCACCCCCAGG	CTCGAG				206

(2) INFORMATION FOR SEQ ID NO:1381:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 496 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1381:

GAATTGGGCC	TTCATGGCCT	ACTCCTCGAT	GCTGATTCAT	ATCCTACTGC	CCATGGTTTT	60
CTCGCTTGTG	CTCATCATGG	TCATGTGCTA	CTTGAAAAGT	CAGTGGATCA	AGGAGACCTG	120
TTATCCTGAC	ATCCCCTGACC	CTTACAAGAG	CAGCATCCTG	TCATTAATAA	AATTCAAGGA	180
GAACCCCTCAC	CTAATAATAA	TGAATGTCAG	TGACTGTATC	CCAGATGCTA	TTGAAGTTGT	240
AAGCAAGCCA	GAAGGGACAA	AGATACAGTT	CCTAGGCACT	AGGAAGTCAC	TCACAGAAAC	300
CGAGTTGACT	AAGCCTAACT	ACCTTTATCT	CCTTCCAACA	GAAAAGATC	ACTCTGGCCC	360
TGGCCCCCTG	ATCTGTTTG	AGAACTTGAC	CTATAACCAG	GCAGCTCTG	ACTCTGGCTC	420
TTGTGGCCAT	GTTCCAGTAT	CCCCAAAAGC	CCCAAGTATG	CTGGGACTAA	TGACCTCACC	480
TGAAAATGTA	CTCGAG					496

(2) INFORMATION FOR SEQ ID NO:1382:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 280 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1382:

GAAACTAGAC AAGAAATCTC AAGCCATGGA GGAGCTAAA GCAGAGCGAG AAAAACGAAA	60
GAACAGAAC A GCTGAGCTCC TTGCCAAAAA ACAGCCATTA AAAACCAGTG AGGTCTACTC	120
TGATGATGAA GAGGAGGAAG AGGATGACAA ATCCAGTGAA AAGTCAGACC GCTCATCACG	180
AACATCATCG TCTGATGAAG AAGAGGAGAA AGAAGAGATC CCTCCCAAAT CCCAACCAAGT	240
TTCCCTTACCT GAAGAATTGA ATCGGGTTCG ATCTCTCGAG	280

(2) INFORMATION FOR SEQ ID NO:1383:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 262 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1383:

GAATTCTAGA CCTGCCTCAG TCTCCCCGTC ATGCTCCCTC TGCCCCGCC TCAAAAAAAAA	60
AAAAAAAAAA AAAAAAAACA ACAGCACCTG TCCAGGCTTC CTTAGGTACA TCTTCTTTGT	120
ATCCATTGGG AGGCTCTGAG ACTGGGCCCA CTTGGTCCTA AGAATCCAA GGTCTTTGGG	180
AGCGTCCAGC ATGTTAATTG GCGTATCATT ACATACTGCT ATCCCTTCC ATTTCTTTTT	240
GTTCCATCAC TCTCCTCTCG AG	262

(2) INFORMATION FOR SEQ ID NO:1384:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 458 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1384:

GAATTCCGGCC TTCATGGCCT ACAGATTATC TTACACTGAA CTGATCAAGT ACTTTGAAAAA	60
TGACTTCGAA ATTTATCTG GTGCTCTCA TACTGCTGC ACTGAGTCTT TCAACCACCT	120
TTTCTCTCCA ACCAGACCAG CAAAGGTTTC TACTAGTTTC TTTTGATGGA TTCCGTTGGG	180
ATTACTTATA TAAAGTTCCA ACGCCCATT TTCATTATAT TATGAAATAT GGTGTTACG	240
TGAAGCAAGT TACTAATGTT TTTATTACAA AAACCTACCC TAACCATTAT ACTTTGGTAA	300
CTGGCCTCTT TGCAAGAAT CATGGGATTG TTGCAAATGA TATGTTTGAT CCTATTGGA	360
ACAAATCTTT CTCCTTGGAT CACATGAATA TTATGATTG CAAGTTTGG GAAGAAGCGA	420
CACCAATATG GATCACAAAC CAGATGGCAG GACTCGAG	458

(2) INFORMATION FOR SEQ ID NO:1385:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 284 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1385:

GAATTCTGGCC TTCATGGCCT AAGTTTCAT AATCTTCTA AGCAAATAAA TTGAGCATGC	60
AGGTTTTTT TGCTTTCACT AAGTATGTT AAGATATTAA TTGTACTTTG GTTTCTTTT	120
CTTTTTTTT TTTTTTTTTT TTTGAGACTG AGTCTCTGTC ACCCAGGGTG GAGGGCAGTG	180
GCCCAACCTC AGCTCACTGC AACCTCGCC TCCCATGTT CAGTGATTCT CCTGCCCTCAG	240
TCTCCCGAGT AGCTGGGATT ACAGGTGTGA GCCACCACGC CCAG	284

(2) INFORMATION FOR SEQ ID NO:1386:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 275 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1386:

GAATTCTGGCC TTCATGGCCT AGTAGTGTGTT CCATGCTGTT GTTTTTGTT TTATCTTCA	60
TTGCCTTCC CTCTGCAGTC AACATTATGA CCTGGGGACT CCAGCATCCT TCAAGCAAGC	120
CATTTCGAA GAAGGTGAAA AGAACGCCAG ATGATTGGCA CCTCCTCCTC CTCCCTCCT	180
TCTTCCTCTT CCCTGGCCA GCCCCCTCCT GTGCGTGTGT TTCAGACAAAC ACAGGAGCCA	240
GCACAGGAGT GGAAAATCCT GTAGCGAAC TCGAG	275

(2) INFORMATION FOR SEQ ID NO:1387:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 296 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1387:

GAATTCTGGCT TCATGGCCTA ATTGAATTCT AGACCTGCCT CGAGCCTCCA AAAAGAGTAA	60
ATAAAATAAA ATAAAATTGC CTTTAACAG AAACACACAT AAAACAAAGT TATATATTGA	120
ACCTAACCCCT GTATTTCTC TGGGAACAGT GTTCACTGAT TCAATAATTC AGGATTTGCA	180
GCAGCATAGA ACTTAATGTA ATGAGAGTCA AGTATATATT TCCCAGAACCTCTAAACTAC	240
TGCATATGTG AACATATCTT ATTCAATTGAT TATGTGGCA TATAGTGAAA CTCGAG	296

(2) INFORMATION FOR SEQ ID NO:1388:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 548 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1388:

GAATTCTGGCC TTCATGGCCT ACAACTTGTT CTAGCTTGAG ATCCCTCAAA GTTGGGTCA	60
ACGTTAGTGC TAGATACTAG AAATTTCACTG ATCAGAGAGA CAGACATTAA	120

AAACAAAAAT AGAAGGAAAGG AAAGCTTTCA CCCTGCAGCT TCTTAGCAGG GAACAATTGT	180
CTTGCACAAA CTTTTTCTCC TTTTCTCTCC CATTTCCTTT TACCCAATCC CTTCTTACTC	240
CTTGCCAGTG TGACCATGCG CATTGGTTTA AAAAGATATT CTTTCCTAAT CAGGGCAAGA	300
CAGGCAAGAA TTTTAAAAAA GGAAGGGAGG GAGGGAAAGAA GGGAAAGGAAA ATAAATCCTT	360
TATTTTTTA AACCTATTG AAACCTCTTA AGAAAATTCC ACAATAATCA GGATTCTGT	420
AAATATTGTC AATATATATG AACATATTG AAAAACTACA GTTACAGTAT ATTTACATTT	480
TTGAAACCTT TTCTTCAGGG CCAAGTAACA TGGTGTATCT TCCTTTTGC TTGTGGGGC	540
TACTCGAG	548

(2) INFORMATION FOR SEQ ID NO:1389:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 305 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1389:

GAATTGGGCC TTCATGGCCT AATATGTTCT TCACAGGGAT GAGTCCTAAA TATTATCTT	60
CAGCCATGAC ATTTTCTTG AATTCCAGAT TTGCAATATCC AACTGCCAAC TTGATATCTC	120
ACTTGGAAAGA ACATCATCAC AAACCTTAAC CATCTGAAGT TGGCTTCACA TTCTCTCCC	180
CTATCACTAA CTGCTTTCC CACAGTATTG CCCATTTGG TACATGGTAC CACCATTAT	240
CCAGTTGTTG AGACCTAAAC CCTTCTAATT ATTCTTTTC CTATCGTTAT CCCACATACC	300
TCGAG	305

(2) INFORMATION FOR SEQ ID NO:1390:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 292 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1390:

GAATTGGGCC TTCATGGCCT ACTGGGTTAT TATTCTATTG CGTTGATCTA GCTAGTTTA	60
AATTTCTAC CTTTTCTACC TGTGTTTGTT TAATAGTTTA CTGTTTTAT CTGAACAAAA	120
TTCCTCTTTC AATAGTTGAT CCTGCTGAAT GTCTTCCCGT AGCATTGGGC TTCTCAGGT	180
AACTGGCAT TTTGGTTGAG ATAGAAGGGT TTTTATTGTC CTTTTTTTCT TTTTTTATTT	240
TGAGATATTT ATCTTTCTT TATTTATTTA TTGAGTCGG AGTCTACTCG AG	292

(2) INFORMATION FOR SEQ ID NO:1391:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 217 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1391:

GAATTGGGCC TTCATGGCCT AGGCAGTCGT ATTAATTCTC AAGAAATTTC CAACAAATAC	60
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CACCTGGTTA ATGTTTCAT TAAGGGCACA CATTCTTGCT ATTGAGCCAA TGTGTTGGT	120
GATGGTGATC AAAGTCGCTC TGGCCAGGTC CTCTTACTG ACAGCCTCTC GCTTCTCCTT	180
GCTCATCATG TTTCCAAAGC TTGAAGCCAC ACTCGAG	217

(2) INFORMATION FOR SEQ ID NO:1392:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 438 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1392:

CGGGAGGCTG AGGCAGGAGA ATCACTTGAA CCCGGGGGGT GGAGATTGCA GTGAGCCGAG	60
ATCAAGACAT TGCATTCCAG CCTGGGCAAG AAGAGGGAAG TTCTGTCTCT AAGAAAAAAA	120
AAAAAAAAAA AAAGCTACAC TTTGATCTTT GATTCACTAG ATATCAGTAA GTATTTGCTG	180
CATTTCATGA GAGCCAACCA TGAGTAAGAC AGAAGTACTT CCTGTCTCC TGGGCTTTCC	240
TGAGTAGCAG GAGAGATGGA CTAGGAAGAT GAGTGAUTGC AGTAGCCTGT GCTGTTCTGC	300
GGTGATGGGA GAGGCCACTG AGAGTCCGGA CAGGCAGGCT GATATTGTGA GAAGGCTTCT	360
CGAAAGAAGG AACATTTAAG CTGAGAGTGA GAGTTGCGTA AGAATTCCC AGGGAGGGGA	420
AAGAGGGAAA CACTCGAG	438

(2) INFORMATION FOR SEQ ID NO:1393:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 272 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1393:

GAATTCTGGCC TTCATGGCCT AAAACTTCCT AGGAGAAAGC AAGAGAAAGC CACCAAGACCA	60
GAGCCGAGGA CTAAACTTTA AGGTGCAAGA CGGCAGAGGG GCAGGTTCTC CCCTGCACAC	120
CCCAAGGCCT CTCCTGCACC CGCGAGGCCT TCCTTGAGCG CCCAGGCCCG CGAAATGCCT	180
GCCCTCCTTC TGACAAAAGG AGGGGGTAGG ATGTGAAGGG GTAGTGCAAC CAACAATGTT	240
TTTGTAAACA CAACAACAAAG GAAATACTCG AG	272

(2) INFORMATION FOR SEQ ID NO:1394:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 311 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1394:

GTGAAATTGT CAAATAAAAA TATGAAAATCT CAGCTGACAA GAGTAAATGT CCTTAAAGAC	60
AAAACAATTG AAGAGCTCAG GCAATCTTTA GCAAATGTTG AAAGGATGAA AGAGAAGGCA	120
AATGTTGAAA CGATGAAAGA GAAGGCAGTT GTGAAAACAG AAAACTTGAA AACTACATTA	180
GACTCTGCAG AGCAGAAAGC AAGATCAGAC AAAGAGAAGA CCCAGCAGAT GTTAGATGCT	240

GTCACTTCTG AGCCCCAAC AGCAAAGAGC GCACCTGAAG AAGTATCAGG ACAAGAACAA 300
GAAGTACTCG A 311

(2) INFORMATION FOR SEQ ID NO:1395:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 367 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1395:

GAATTGGGCC	TTCATGGCCT	ACTGTGTGCT	TAGTTTAAA	GACAACTTG	AAGTAAACAA	60
TGAAATAAAA	GATGTCACTA	AAACCTCTGA	GGCTCCTGAG	CACATTTC	TGATACAGTC	120
TGTGGGGCTT	GAGGAGACCG	CATGTATTGT	TCTTCTTCTT	GTTTTCTTC	TGAGTTCTCA	180
ACTGCGGAGA	GCACCTGAAC	CCCCTTCCT	TTTGACCG	AGGCTGCACT	TTGGGCCCCA	240
GCCAGCCCTT	TTTCTTTTTC	TTTTCTTTT	GTGGTCTTC	CCTGGAGCGA	CTCTGGGGAG	300
TCCTGGATAT	CCCGCCTGCC	CCTTCCCCTC	AGCCCCATGC	TTGTTCCAAC	AGTCTCCACA	360
GCTCGAG						367

(2) INFORMATION FOR SEQ ID NO:1396:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1396:

GAATTGGGCC	TTCATGGCCT	ACTTGGAAAC	GAAAGAGGGC	CCAAACCTACA	ACTAAGAAGG	60
GACAAACCTT	GAACTAAGTA	AGACCTTACA	CACCCAGAAA	GAACACTGGG	CCCTCCTTCT	120
TCAGGGACAA	TGCAGTAGCC	ACTTGGCTTG	TGGAATTAC	TGAAGGCTAT	TTCTGTAAC	180
TTGCTTAGTTA	ACTTAGTTT	GTATTTCAGG	CAGAGGTGCG	CTCTGTAATG	TTGGGCCTTT	240
GACTTCACAG	TACTGGAGAG	CTGTTCACAC	AGATGTTAG	ACCTTTCTCT	CTCTCTCTCT	300
TTTCTTCTTT	CTCAACAAC	CTTATCTCTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:1397:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1397:

GAATTGGGCC	TTCATGGCCT	ATAGGCCATG	AAGGCGAGAT	ACAGCAGCTG	CTGCAGAACG	60
TCAAGTCTGA	GTTGGAGATG	GCCCAGGAAG	ACCTGTCCAT	GACCCAGAACG	GATAAATTAA	120
TGCTCCAGGC	AAAAGTGTG	GAGCTGAAGA	ACAACATGAA	GACCCTGCTC	CAGCAGAACCC	180
AGCAGCTCAA	GCTGGACCTA	CGCCGCGGCG	CGGCCAAGAC	GAGAAAGGAG	CCGAAAGGCG	240
AGGCCAGCTC	TTCCAACCC	GCCACGCCA	TCAAGATCCC	GGACTGCCA	GTTCCCGCCT	300

CGCTGCTGG A GAGCTGCTG AGACCACCGC CCGCCGTGAG CAAGAGCCCC CTCGAG

356

(2) INFORMATION FOR SEQ ID NO:1398:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 447 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1398:

GAATTCTGGCC	TTCATGGCCT	AATTCTATGA	GGTATTATTA	TCACTATTT	ACAGATGAGT	60
AAACTAAGGC	TCACAGAGAT	TAACTGGCAG	AACTGAAATT	CTCCATATCT	TTTGATTCC	120
AGATTATTTC	TCTTAATCAT	GATATGATTT	TGCTCTCATAT	AATCCAATAC	AATAAATAAG	180
GAGGTCAAGGC	AGTAGGGAGCT	GAAGTTGGAG	AGACTGGGAG	ACCTATCAGG	AGGGGTCAATT	240
TATGCCTGGC	TAGGAGTTTC	GACTTTATGC	TGAGGCTATG	GGAGCAGTAT	TAAAGTGATT	300
CTAGCACTGC	AAAGTTATGA	TTAGGTTTAT	CAGCCAAAGG	AAAAAAAAG	ATCTTGGTGG	360
TCACAGTGCA	GGTAGATACCG	ACATAATCGA	GAATGTGAA	GAATGCAGAA	TCAAGAGTTT	420
GGTCTGGAC	AGAGAGAGGA	ACTCGAG				447

(2) INFORMATION FOR SEQ ID NO:1399:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 428 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1399:

GAATTCTGGCC	TTCATGGCCT	AATTGAATT	TAGACTCTTT	TAAATTTCT	GCATTTGCCT	60
GAAAAGCACC	CCTGTAAGAA	TAGATTCTC	ATGGCTCTAA	AAATTATTCC	CAAGAATACC	120
TTACTTGGTT	CAAAGCAGA	CTGTTCTCT	TCATTTCATC	TCAAATCAGA	CTTCTGGGCA	180
AGATGTTCTT	TAGAGTAAGC	AAACCTACAA	CCTAAAAATC	TCTTCAAGAG	GCATCTCTGG	240
TCTTGTGACA	AGACCTCTTC	AAAAACCCAC	AGTAAAACTC	CCCTCCCTCC	AGTTGGCCAC	300
CAGTC TGCCA	CCAAACATGA	ACAAATTCTG	CTGCTAATCG	GTTTCCCTTG	TGATCTGGTT	360
CCTGAGGTCT	TCGGATCTGT	GCAATGAATT	ATTATTGTT	TTATTAAACC	GACAGTGGTG	420
TGCTCGAG						428

(2) INFORMATION FOR SEQ ID NO:1400:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 276 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1400:

GAATTCTGGCC	TTCATGGCCT	ACTAGACCTG	CCTCAGGGTG	TTCTGTGGTT	TCAGGTGGAA	60
GGTGGAGGGC	CTCGGAGACC	AACTGTGAGT	TAGGCAGGGT	TTAGAATCTG	ATGGGAAGAG	120
GGCAGAGACA	ACAGGTTCGA	AAGAGTCAGG	GCTCCTGGGA	CCTGGGAAGT	AAAGAGTAAA	180

CCTGGGGCAG TGGGTCAAGGC CAGTAGTTAC ACTCTTAGGT CACTGTAGTC TGTGTAACCT 240
TCACTGCAATC CTTGGCCCCAT TCAGCCCCGGC CTCGAG 276

(2) INFORMATION FOR SEQ ID NO:1401:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1401:

GAATTGGCC	TTCATGGCCT	AGCCCACCGTG	CCTGACCTAC	TTATTCTTTT	TCCTGTTCA	G	60
CATCTAGTGT	ATGATACGAT	TTGCTTATT	GT	TTATGTTT	CATCATCTGT	TCCCCACCC	120
CAGCCCTGGC	CCCCCTGCTG	GAACGCAAGC	TCCAGCAAA	GCTATTTCAC	CGTTGCTGTT		180
TTCCAAGGGC	CTCGAACAGT	GCCCCGGACA	TAGCAAATCC	TCAGTGAACA	TTAGAGGAAT		240
AAGTGATTCA	AGAATAGAGC	TGTTAGAAGG	TGTTCTGGAG	GAAGACGCAT	CCGGCTTCAT		300
CCCTGGCAC	ATCGAG						316

(2) INFORMATION FOR SEQ ID NO:1402:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 342 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1402:

GAATTGGCC	TTCATGGCCT	AAATTCTCCA	GCAAAATGAG	GATGAAAACC	AGCAAAGAAG	60
AAGAAATGGG	ATCCATAAAA	CAGTGGACCT	TACTTAGGAT	GTCTCATTCT	AGAGTGACAG	120
CCAAAAGGGT	ATCTCACCCCT	AGAGTGACAG	CTATCCAGCA	GACTAATTTC	AGATGAGAGC	180
ATACTGTCTC	GGGCCTTCTG	GGAAGAATGT	GCATTCACTG	CCATAGATAG	TATCACTGAA	240
GAGCTGGGAT	GCTTGAGAAG	ATTATTTAGT	CAAGAAAAAA	GAAAGACAAA	TCAACAAATAT	300
GTCAAAAT	TCAGGTCCAA	TTATAGAGCA	AAAGGGCTCG	AG		342

(2) INFORMATION FOR SEQ ID NO:1403:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 333 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1403;

GAATTGGGCC	TTCATGGCCT	AAGGCTAAAA	AGAAGGAAAA	AGAAAAGGAA	AAAAGGGAG	60
AGGAGAAAAT	GGAAGTGGAT	GAGGCAGAGA	AAAAGGAGGA	AAAAGAGAAC	AAAAAGAAC	120
CTGAGCCAAA	CTTCCAGTTA	TTGGATAACC	CAGCCCGAGT	TATGCCTGCG	CAGCTTAAGG	180
TCCTAACCAT	GCCCCAGACC	TGTAGATACC	AGCCTTCAA	ACCACTCTCT	ATTGGAGGCA	240
TCATCATTCCT	GAAGGATACC	AGTGAAGACA	TTGAGGAGCT	GGTGGAACCT	GTGGCAGCAC	300
ATGGGCCAAA	AATCGAGGGG	GAGGTAACTC	GAG			333

(2) INFORMATION FOR SEQ ID NO:1404:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 422 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1404:

GGGCCTGGG	CCCCAGCCC	CAGCCATCC	GTGGCCAGG	CACTGGGGG	CTGAGGTCT	60
CTGAGAAGGG	ACACAGGGCC	GGGGGCTCT	CTCAGCCCCT	CAGCAGGAGA	GGACTGACTC	120
CAGAAAATC	AGCGTTGTA	CCCACCTCAGG	CTGCCAAGAC	CTGTGTCCTG	CCTTCCAAGC	180
TCAACCTTCA	GAGTCATGA	GGCCCCTTG	CCAGAACATGTC	CACAGAGTTC	ATGAGGCC	240
TTGCCCGGAA	TGTCCACATT	TGAAACCTCC	CAACACCGAG	CCCCATTTCA	AGTATAACCA	300
GGAGGGAAAA	TGGTGCTTGA	AATAAGCATG	CCACAAAGGA	AAACCTGCTT	TCTCGAAATG	360
GGCCCTGGCC	GCCCAGGCC	TGACCTCCCC	GGCCAGGATG	GAACGTTCCA	GAAACCCTCG	420
AG						422

(2) INFORMATION FOR SEQ ID NO:1405:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 314 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1405:

GAATTGGGCC	TTCATGGCCT	ACTGGGTCC	AAACTGGATA	TCTTGGTGG	GAACATGGGG	60
AGGCTCAGCT	TTGGGTCTAA	CAGCAGTGAC	TTCAAGGGCC	TGTTGAAGCC	ACCAATTCTG	120
GGGCAAACAA	TCCCTAACCA	GTGGATGATG	TTCCCTCTGA	AAATTGATAA	CCTTGTGAAG	180
TGGTGGTTTC	CCCTCCAGTT	GCCAAATGG	CCATATCCTC	AAGCTCCTTC	TGGCCCCACA	240
TTCTACTCCA	AAACATTTC	AATTAGGC	TCAGTTGGGG	ACACATTCT	ATATCTACCT	300
GATGGACACT	CGAG					314

(2) INFORMATION FOR SEQ ID NO:1406:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 299 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1406:

GAATTGGGCC	TTCATGGCCT	AATTGAATT	TAGACCTGCC	TCGACTGCC	CAAACCTGAC	60
CCATCCTCAG	ACCCCCACCC	CCGTACCGC	TCCTCCAAT	GATTCCCTCC	TCTGTCAGTC	120
CTGCTCTACT	TTCCAAATCC	TCGCCTGCTC	CAAACCTGAC	CCATCCTCAG	ACCCCCACCC	180
CCGTCACCGC	TCCTCCCAAT	GATTCTTCC	TCTTTGATCC	TGCCAACTT	TCCCCAACAG	240
CACCGTAATC	CTCCCCAAA	TCATCACAAT	CCTCCACCAT	ACAATCCGC	GTTCTCGAG	299

(2) INFORMATION FOR SEQ ID NO:1407:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 199 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1407:

GAATTCTAGA CCTGCCTCTC GCTGGAAATC AGCGTTGTAAGATGGACGCC CTGCTCAGCA	60
GAGCTCATCT TTCTAGAAAAG GCACCTGGCC TTGGAAGGCG AGTGAGGAAC TGTCTATAAGG	120
ACTTTTCTT CCCATGTTGC TTTTCAGGAA AGCTTCAGG ATGTGAAAT GATGGTCAG	180
CTATTGGATG AGGCTCGAG	199

(2) INFORMATION FOR SEQ ID NO:1408:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 220 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1408:

GAATTCGGCC TTCATGGCCT AGTGATCCAG AAGAATTACC ATTAACCTTA TTTCAGAATT	60
TAGACTTCCA ATACAGGTTA ATCCTCCAAT TAAAAGAAAG ATTCAAGAGTG AATTTTTAA	120
AAGGCAAGGC AGTTATATGT TGCTTACAAG AACTAAACA TAAAGGCACA GATAAGTTGG	180
AAGTAAGAGG GAAAAAGACA TGCAGAACT AAGTATAGAG	220

(2) INFORMATION FOR SEQ ID NO:1409:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 235 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1409:

GAATTCGGCC TTCATGGCCT AGATAAGCCC TTCAGAAACA CATGCACTGT TAATTCTGTT	60
TTAAATATAA TAAAAACCAT TTCACTTTGA CATTACCTAT TAAGTTTAC TGAAAGTCAA	120
AAGGCTACT TACTGTGACT TCCAAAAAAG TATTTTGATA ATATTTGAA AGAAATAAAT	180
AATTCCTT TGCATGAAAT TAAAAGCCAT GATAATAGGG AAAACATTAC TCGAG	235

(2) INFORMATION FOR SEQ ID NO:1410:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 577 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1410:

GAATTCCGCC	TTCATGGCCT	ACCCACGTAA	CGGCTTGGCT	GGGCACCCCC	GCTTGGCTTG	60
GTGGTCCTGG	TTTGGATTGG	CTTTACCCCTG	GCATTCCTTT	GCTGGCCTTG	ACCTTTTCTT	120
GCTGGGCTTG	GCATTCCTCT	GGCTGGGCTG	GGTGTTCCTCC	CGGTGGGGCG	TGCACTTTCC	180
CTGGGTGGTG	GAGGGGGCGT	GGGCTCTCCC	CGGGTGGTGG	GGGGACGTGG	GATCTCCCCA	240
GTTGGTGGTG	GGGGAGGGGT	CGTGGGCTCT	CCCAAGGGTGG	GGTTTTGGCT	GGGATTGACC	300
TTTCTCCCCCT	AACAGATTGG	AAACTCGTAA	TTTCCCCTGTT	TTTGGTGAAGA	CTCGTTGACA	360
GACACCATCT	GCTCGCTACT	ACCAGGCTGT	TGAAAGCAGA	TGGTGGCTGA	GGTTTCTCCA	420
AAGCTGGCTG	CCTCCCCAT	GAAGAAGCCC	TTTGGCTTC	GGGGCAAGAT	GGGCAAGTGG	480
TGCTGCTGCT	GCTTCCCCCTG	CTGCAGGGGA	AGCGGCAAGA	ACAACATGGG	TGCTTGGAGA	540
GACCACGACG	ACAGCGCCTT	CACGGAGCCC	ACTCGAG			577

(2) INFORMATION FOR SEQ ID NO:1411:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 275 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1411:

GAATTCCGCC	TTCATGGCCT	AGGGATGCCT	CTCAGTGACC	CTTATATGTC	AGGTATGAGG	60
CGGATGGGGC	ATCTCTCTAG	TCCTTCTAG	GGTTTTACT	CTTCTAGTCC	CTTCAGGGC	120
TGAGTGCTCT	GACTTTATGT	CTTCCACGT	AGGCCTTGAC	CCTGCACATAT	CAGATCCTGT	180
GTTGCCCGG	CGCCTTCGGG	AAAACCGGAG	TTTGGCCATG	AGTCGGCTGG	ATGAGGTAT	240
CTCCAAATAT	GCAATGTTGC	AAGACAACCC	TCGAG			275

(2) INFORMATION FOR SEQ ID NO:1412:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 532 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1412:

GAATTCCGCC	TTCATGGCCT	AGTTTATTT	TGCACTTGGA	AATATGTCAG	AAATCACTTG	60
AAGGCAAATA	AGATCTGGCC	CTCTGCAGAG	TTAACGTGGCT	AACATGCCCT	AGATCTCCAG	120
GCTTAGAGGC	TGCCCTTCTTG	GTACCCATGA	TTCTCCAGGC	CTTTCCAGGG	CAACATTGTC	180
CAGCATCTCT	CTCTCTCCTC	CCGCCGTCTT	CCTTTGGAAG	TTTGACTCTC	ATGTGTGGTG	240
CCCGATCCCT	AGGCCACCTG	TGCCGCCAG	CCCCTGAACA	GATAAACCT	ACTAAAGGTT	300
AATCCAAGC	ACAAGCTTIG	GGCTGGTCT	TCTGGGTTGA	TTGGCTTCT	CTCTCTCT	360
CCTTTTTGA	GATGGAGTCT	CCTCTGTGCG	CCCAGGCTGG	AGTGCAGTGG	CACAATCTCG	420
ACAATCTTGG	CTCACTGCAA	CCTCTGCCCT	CCGGGTTCAA	GCAATTCTCC	TGCCTCAGCC	480
TCCTGAGTAG	CTGGGATTAC	AGGTGCCCGC	CACTGCTTCT	GGCATACTCG	AG	532

(2) INFORMATION FOR SEQ ID NO:1413:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1413:

GAATTCTGGCC	TTCATGGCCT	AGGCATCCAG	GACAAAAGTT	TGGAAAACAA	AATAATGGAA	60
CTAAATAGTA	CTAACCAAAG	TATAGGGTGC	TTTATGATT	ACAGAACTCT	CTTACAGGCA	120
GTATGTTGTT	CAGGCGCAC	TAGAACCCAC	GTAATGGCAG	AGGCTTCCTG	TTCCATGTT	180
AAAAACCTTT	CCAAGGCTT	TCATTATTT	CTTATCTGTG	GTACCCCTAG	CTTCCTGTGC	240
TCTAGACACA	CTGGCCTACC	TTCAACTTCC	TTGACCAGTG	TAGCTTACAG	TGTAAGCTTA	300
CCCCCGGCC	CCACCCCTCGA	G				321

(2) INFORMATION FOR SEQ ID NO:1414:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 457 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1414:

GAATTCTGGCC	TTCATGGCCT	ACATGAACGG	AAGAGTGGAT	TATTTGGTCA	CTGAGGAAGA	60
GATCAATCTT	ACCAGAGGGC	CCTCAGGGCT	GGGTTCAAC	ATCGTCGGT	GGACAGATCA	120
GCAGTATGTC	TCCAACGACA	GTGGCATCTA	CGTCAGCCGC	ATCAAAGAAA	ATGGGGCTGC	180
GGCCCTGGAT	GGGGGGCTCC	AGGAGGGTGA	TAAGATCCTT	TCGGTAAATG	GCCAAGACCT	240
AAAGAACCTG	CTGCACCAGG	ATGCTGTAGA	CCTCTTCGT	AATGCAGGCT	ATGCTGTGTC	300
TCTGAGAGTG	CAGCACAGGT	TACAGGTGCA	GAATGGACCT	ATAGGACATC	GAGGTGAAGG	360
GGACCCAAGT	GGTATTCCA	TATTTATGGT	GCTGGTGCCA	GTGTTGCCC	TCACCATGGT	420
AGCAGCCTGG	GCTTTCATGA	GACACCGGCA	ACTCGAG			457

(2) INFORMATION FOR SEQ ID NO:1415:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 373 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1415:

GAATTCTGGCC	TTCATGGCCT	AAAAATATCT	AGTCACTGTT	CTGTTTACC	CATTCTTTA	60
AACTTTGTTT	TCAGTTCA	GTCAGGCTTC	CAAGAAAAC	GATAACATT	TGATTGGTTG	120
GTTTCTCTTA	TATCTTTTC	ATTTCACAGT	ACATTGTGAT	TTAATGATT	ATCTCTTAAA	180
TCTTTTCAG	TCATAGGTT	CCTCTGTCT	CTTCTTTTT	CCTTGACTT	CATTGTTGC	240
AGAACCTTTG	TCCTGTGGTT	TCGCACAGTC	TGGAGGAATT	GGGGAAAGTG	GCTGTCTAAA	300
CTGGTTCCCT	CCTTCCCATT	ACTGCTGCAA	TCAAGATGTT	AGGGGCCTA	CAAGCAATAG	360
AAGCATCCTC	GAG					373

(2) INFORMATION FOR SEQ ID NO:1416:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 239 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1416:

GAATTGGCCT TCATGGCCTA GTCATTGCT TTTATATCAG ATATCTAATT AATCAAACCTT	60
TCTGGTTAAC TGCCTCCAAT TATTAACAAT CCTGCTCAGA GTTAAGAGTTA GCATCCAAGG	120
ATTTCTCC ATATTTCTTT TCAGAGGCAA TGGAATTAC TAGTTTTTA GCTCTTCAAC	180
TTTGGCTGAT GTTTTAGTG GTGGTTATGC TATCTTCAGT AGTTTGGGGA TCGCTCGAG	239

(2) INFORMATION FOR SEQ ID NO:1417:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 308 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1417:

GAATTCGGCC TTCATGGCCT AAGAAAGGTT AAGTTACTTG CCTGAGGTAA CTTAGCATTG	60
ATAGAATTAG GATTGAACC TGGGTAGTAT GACTCTTAGG TCCCCATGAG CTGGCACACCA	120
GGTTGCCAAT CCATCAGTTA ACCTTCCCAT CACTGGGTCA GAGAGCCAAG GAGCAGAAGG	180
GGGATAGAAC TTCCCCAGTA CCAAACAAAG GGGCTGAGCT GGGATCGCAA CCACAGGTTTC	240
TGTTCCAAAG CTGGGGCTCT TTGACAAAGG CCATGCCGC CTTGTCTCTT ATGCATGCTC	300
CACTCGAG	308

(2) INFORMATION FOR SEQ ID NO:1418:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 174 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1418:

GAATTCGGCC TTCATGGCCT AAACAAACAA AAAAAAATGT TTTATATGCA AAAGTTTTT	60
GTATCATGCT TGTATAAAC CAGCTTTTT TGTATCATGC TTGTATTCTTT TTTTTCTAGC	120
TGTTATTGCT TTTCTGATAA TAGTACTGAA TTTGGTGTAA TGGCTGGTCT CGAG	174

(2) INFORMATION FOR SEQ ID NO:1419:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 234 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1419:

GAATTGGCC TTCATGGCCT AATTTATAT TATTGTTAAA CACTGGGCTG GAATTATTGT	60
TTTGGGAAAA GCCCATGAG AGTTTTGCT CTGTGGGTTT TTAAAGGTAA GAATAAATTT	120
CGTGTGAG ATGTTTGAG TGTCCTGTA ACCAGAACAG AAGTGTCTTA GATTATAACT	180
TTCTCTCAGA TTGAGTAATT CTGTTGTAAT AAGTCAGCAT ATGTTGCCAT CGAG	234

(2) INFORMATION FOR SEQ ID NO:1420:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 157 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1420:

GAAAATATTT TTACTTTAT AATTGATAGT ATTCTTAAC TCTCAATTAA AAAAAGTTTT	60
TAAGCATTTC TGTGATATAG ATACTATCAT TTCAATTAC ACAATGCTTC TGATGATT	120
GCTGTTGTT TAGGGACTA CTCGAGGCAG GTCTAGA	157

(2) INFORMATION FOR SEQ ID NO:1421:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 495 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1421:

GAATTGGCC TTCATGGCCT ACCAGGATGA GAGGGGAAAA AGAAAGCCTC CAGTGACTTC	60
AGTTGCTTTG CCAGTTGTCT TGGGATTGTT TTACACCAC CTTTACTTCC CTTGCTCAGA	120
CCTCTCTGTT TCACCATTGC TCAGGCATTG AGGAAAGTAT CTGCTCACTC CCACCTGGTG	180
AGTCCTCGGC CTTGAGGTTG CTGACTCTCA GGCGTTAGGC AGCTGGATGA CTTCCCGCTT	240
CATGCAGCAA AGGCCAGGGG CTTGCGCGCC TCTGCAGAGT TGTTGCTAGG GAGACTTG	300
TCATCATCCA CAACCTTGT TCTCACTTCC TGTTGGGCT CATCTCTGAA GAACAGGTCT	360
CCCAGCTTCG CTCCATTATCA CTGCATTGTG AAGAGGAGGA AAAGTGAATC ACAGGAGAG	420
AAAGGAAAGG ATAGAATCAC AGGCTGCATC TGCACCTGAA AAGTGACCCG CGGAAACTCT	480
ATGGCGGATC TCGAG	495

(2) INFORMATION FOR SEQ ID NO:1422:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 449 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1422:

GAATTGGCC TTCATGGCCT AGACAAAAGT AGAATTAGTA AACTACTACA TTGAGTACAC	60
TTTGTGTTAA AATTCAAGG GAAGACTTCT TAAAAACAAG TGAAATTGTT AAACCCCCCCC	120
CTAACGCATTA CAGATGGCTT ATAGCTGTCC ACGGGGTTGG TAGAGGTGGG AAAGGGAAGG	180
GTTCTAGGCC AGAATGTTCC TATTTAGAAG ACACCAAAT TACAGTCTGT GTTATGTATG	240

TATACCATT	ATTCAATGCT	ACTGTGTATA	TAATGGAAAA	CTTAAGTCCA	GTTTGAAACA	300
TCTAGTCTT	CTAGGTGTTT	AAAAGTGTAC	AACAGCCTGT	CGCAGTGGCG	CATGCCCTGTG	360
GTCCCAGCAC	TTTGGGAGGC	CGAGGCAGGC	GGATCACGAG	GTCGGGAGAT	CGGGACCATC	420
TTGCCAGCA	TGGTGAACC	CCTCTCGAG				449

(2) INFORMATION FOR SEQ ID NO:1423:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 306 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1423:

GGGAGTTAT	TATTCAATTAA	CGAAATTAGC	CCTTTTATCT	GCCATATAAT	TTGCAACAAAT	60
TTTATATCG	CTTTTTTATT	GTCTTTTGGC	TGGTGTATG	AAAGTTATGG	CCATGCAGAA	120
ATGTGGGATT	TTATGTAGCA	CAGTTGTCTC	TTTTTTTTTT	TTTGAGACG	GAGCTAGCT	180
CTGTCACCCA	GGCTGGAGNG	CAGTGGCATG	ATCTCGGCTC	ACNGCAACCT	GTGCTCTCCA	240
GGTTCAGCA	ATTCTTCAGT	CTCAGCCTCC	CAAGTAGCTG	GGACTACAGG	CGCCCACCCCC	300
CTCGAG						306

(2) INFORMATION FOR SEQ ID NO:1424:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 362 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1424:

GAATTCCGGCC	TTCATGGCCT	AGAACCTTG	ACACCATGGA	ATGTTCTACT	TATTATTTG	60
TGCTACAATA	TGTGCTGTT	CTTTGTTTG	AATTGCAGAT	TGTCTACTAT	GAAGCAGGG	120
TTATTCTATG	CTGTGTCCTG	GGGCTGCTGT	TTATTATTCT	GATGCCTCTG	GTGGGGTATT	180
TCTTTGTAT	GTGTCGTTGC	TGTAACAAAT	GTGGTGGAGA	AATGCACCA	CGACAGAAGG	240
AAAATGGGCC	CTTCCTGAGG	AAATGTTTG	CAATCTCCCT	GTTGGTGATT	TGTATAATAA	300
TAAGCATTGG	CATCTCTAT	GGTTTGTGG	CAAATCACCA	GGTAAGAAC	CGGATCCTCG	360
AG						362

(2) INFORMATION FOR SEQ ID NO:1425:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 194 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1425:

GAATTCCGGCC	TTCATGGCCT	AGTATATCTG	AAAAGTACAC	TGTGTTTGA	AATTATAAAAT	60
TTTCATTCTG	AATGAGGTTT	CTTTTTTGA	TTTTCTTTAA	AAAAAAAAAA	CAACCTGCTT	120
TGATTTGCTT	TACATTCCCTT	GCCCTCCATT	TTCTTATTAA	TATTGTAAC	ATTAGAAAAA	180

TGAACACCCCT CGAG

194

(2) INFORMATION FOR SEQ ID NO:1426:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 393 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1426:

GAATTCGGCC TTCATGGCCT AGCCATGTAT TTTCTAATAT CCCTTGGACT TCATCTTG	60
CTCATGTTT ATTGGAAGT ATTGGGATTG TTTTCAGTT ATCTTTCTGT TATTATTTCT	120
ATTTAATTCT GTTATGGTCA TACAACATAA TTAAATTCT TCTAAATTG TTGAGGATTG	180
TTTTGTTGC CCAGAATATG ATGAATCTCT CATTGAATGT TGTATGTGCA GTTGAAAAGA	240
ATGTTTATTG TGCTGTTGGT GGGTAAGTG TCATGAATAT AATTAGGAGA AATTAATGAT	300
AGTGTAAAGG TTGCTATAT CCTTGCTTT TTGGTGTACT TATTTTATTG ATTATTGAGA	360
GAGAAGGGTT GAATTATCTA GGTGCAACTC GAG	393

(2) INFORMATION FOR SEQ ID NO:1427:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 119 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1427:

GCGATTGAAT TCTAGACCTG CCTCGAGCCA CCCCGTTAAC GTGTGTGTTG ACAGTGAAGT	60
CCTTGGGTGG GGCCATGTGT GTGTTGTGA TGTTCTTAA GTTGATGCAG CTTCTCGAG	119

(2) INFORMATION FOR SEQ ID NO:1428:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 327 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1428:

GAAAAAGCAG TAAAAATAGA AATCCATCTT CACCAAGCCT TTAAAGCAAT ATAAATTTAT	60
ACTGAGGTTC CTGCATACTA TAACACACAG AAGGAATTCC TAAAAATGTT CTTTATCCAG	120
CTGTCTACCC AAAGTTCTAT CATCCTGGCA AACTGCTCTC TCCAAAATTC ATCATCTTGG	180
ACTCTCTCTG AACTCCAAC CCTTCTCTCT TATAACCTGT TCTCCAACAT TCGAATTGTT	240
TTAGTTGTC TTCTTCTAA TATAGCTATT TCTGTTTACC ATTTTGAGCT CTGGAACACTCT	300
AACCACTACT TACCACCAAA ACTCGAG	327

(2) INFORMATION FOR SEQ ID NO:1429:

- (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1429:

GAATTCGGCC TTCATGGCCT AATCACATAT ACACAATTAA CCCATTCAA GTGTACACGT	60
AGTGGTTTA GTATATTAC AGATAGGTGC AACTATCACC ACAGTCAGGTTAAT TTAGAACCTT	120
TTCATCAACC CCAAAAGAAA CACCATACCC TTTAGGTATC GCCTCCCTA TACTCCACCT	180
TCCAAGTGCT GAGCCCTAAG TTACCACTAA CCTTCCTATC TCTATAGATT TCCTTATTCT	240
GAACCTTTGA ATGGAATTAC AGTATCTGGT CTTTGTGCC TGTTTTTTTG TGACTAATGT	300
TTCAAGGTTTC ATCCAGGCC CGAG	325

(2) INFORMATION FOR SEQ ID NO:1430:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 226 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1430:

GAATTCGGCC TTCATGGCCT ACCTAACCT GGCAAGAGTAC ATCATGCCCTC CGAGAAGAAA	60
CGTCATTCCA CTCCCTTGCC GAGCACTGCT GTACCAAGCC ATACACCTGG CAGCAGGCCAG	120
CAGTCCCCGC TCAACAGTCC TCACCCGGGG CCCATCCGGA CAGGCCTGCC TCCTGGGCAC	180
CAGCAGGAAT TTGCCGGACG AGCCAACAGC ACCTCCAACC CTCGAG	226

(2) INFORMATION FOR SEQ ID NO:1431:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 256 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1431:

GAATTCGGTT CATGGCCTAG GATTAACAAC TTGGAAAAGG CCTATGATAAC TCCTGGTAAA	60
CCTCTTTGTG CTGCTCTCTG TGGTTTGTGT CCTCTTAAAT CTAGCTGGAT TTATCCTAGG	120
CTGCAAGGG GCCCAGTTG TGTCCAGCGT GCCCAGGTGT GATCTGGTGG ACTTAGGTGA	180
AGGCAAGATT TGCTTCTGTT GTGAAGAATT TCAACCAGCC AAGTGCACAG ACAAAAGAAAA	240
TGCCTTGAAA CTCGAG	256

(2) INFORMATION FOR SEQ ID NO:1432:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 240 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1432:

GAATTCGGCC TTCATGGCCT AGGTTGCGGT GAGTCGAGGT CTGCACTCCA GTCTAGGTGA	60
CAGAGCCAGA CCTGGTCTTT AAAAAAAA AAAAAAAA AGTGAATTCA AAAGATTAGC	120
TAAGACAAAT TGGGAAAAAA ACCAAAAGG GGAGTTGACC TAACAGATAT TAAGATGTAT	180
TTCTAAAGCC ATAGCAGCTA AAATAGTACA GTATTAATGT AGGGACAAAC AGAACTCGAG	240

(2) INFORMATION FOR SEQ ID NO:1433:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1433:

TCATTCTGAA CAAAAGGGAT TAGAGAAGAA AAATCTCTTG ATATAAGGCT TGAAAGCAAG	60
GGCAGGCAAT CTTGGTTGTG AATATTTCT GATTTTCCA GAAATCAAGC AGAAGATTGA	120
GCTGCTGATG TCAGTTAACCT TGAGAACGTC GTCCCTTTCA GAAAGGCCGG AGCCTCAACA	180
GAAAGCTCCT TTAGTTCCCTC CTCCTCCACC GCCACCCACCA CTCCTCGAG	229

(2) INFORMATION FOR SEQ ID NO:1434:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 268 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1434:

GAAATTGAAA CTCAAATCAG TTAGCTTCAA ACAAAAACGA AAGTTAGACC AAGGGAACGT	60
ATTAGATATG GAAGTAAAGA AAAAGAAACA TGATAAACAA GAACAGAAAG GAAGTGTGGG	120
AGCTACATTC AAATTAGGTG ACTCTTGTG AAACCCAAAC GAAAGAGCCA TTGTTAAAGA	180
AAAGATGGTA TCAAATACTA AGTCTGTAGA CACGAAAGCG AGTTCATCTA AATTAGTAG	240
AATTCTAACT CCTAAGGAGC ATCTCGAG	268

(2) INFORMATION FOR SEQ ID NO:1435:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 247 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1435:

GAATTCGGCC TTCATGGCCT ACAAGACTGT CTCAAAAGA AAAGAAACAC AAATATTGAA	60
ACTCCAAATA TTCTTTGTGT GTAGAAAAT CTAATGGATA ATTAAAACCA GAGCAGAGAG	120

AAAAGCCTAG GAGTTGAGAG ATTTTTAGAT ACGTGACTGA AAAGATTGGA AAAGGCTATC AGTTTTAATG CTTGTGTCTG TCTTTGTGTG GGCCATGGTA TTTTGGAAAGA GCACCATGGA GCTCGAG	180 240 247
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(2) INFORMATION FOR SEQ ID NO:1436:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 258 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1436:

GAATTCCGCC TTCATGGCCT ACCTATTTGT GCATCAAGTG GTTATCTAAA TAGTTTGAAA GGATTGATAT ACTACATTAT ACGTCAAAAA TAAATAAATA AAATTAAGAA GACAGGGATT CCAAGATTGT AGCTGACCAA GCTGCTTGT TTTGCGTACA TCAACACTAT GCTGCTTCCA ATATTCCTAG CCATTCCACCA GGTAATGATT TTTCAACAAT CAAGAGAAAG TCATTCTTGT ACTGTAACAT CTCTCGAG	60 120 180 240 258
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(2) INFORMATION FOR SEQ ID NO:1437:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 415 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1437:

GAATTCCGCC TTCATGGCCT AAATCACTTG GATTGGTTCT CTACTTAAAAA CACAAGCTAG CTACCCAGTC TTGTATTTG TATTTTTAAG AATTGTTAAA AAACATAATT TGTTTTGTAT TTGTGTAAG CATAGTCATA ATTCTAAATC AAACACACTG CATCGAGTTT ATCACTGAAA TTCAGCATCT GCTTTTGTC TCACTTGTGTT ATCTTCTGCT CTCATCGATT ACAGGCGTGA GCCACCGCGC CGGGCGGTAT GTTCCTTACC CTTAAGGACA AGAAATAACG TTTGAAAACA TTCTTCTTGA ACATTAACAA ACTTAGAATG GTACATTCA TTAAGAATTA AAATAGGCAC AAGAGGATTG AATTTGGAA ATATGTTGCT TAGAAATTG GGGGCAATTG TCGAG	60 120 180 240 300 360 415
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(2) INFORMATION FOR SEQ ID NO:1438:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 267 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1438:

GCGATTGAAT TCTAGACCTG CCTCGAAGTG CCAGCAGCAG AGGAGATGAC AGTGACATAT ACAACAGAGG CTGGGGTGAG CACTCCAGGA GCCCTGGAGC GGAAGACCTC AGGGCTAGGA CAGGAGCAAG AGGAAGGGTC AGAGGGCCAG GAGGCAGCCA CTGGGAGTGG CGATGGGAGG CAGGAGACAG GAGCAGCTGA AAAATTCCGA TTAGGATTATCACGGGAGGG AGAGAGGGAA TTGAGTCCGG AGAGTCTACA GCTCGAG	60 120 180 240 267
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(2) INFORMATION FOR SEQ ID NO:1439:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 301 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1439:

GGGATTGAAT	TCTAGACCTG	CCTCGAGTCA	TATCCCTGAG	CAGTAGAGTA	AATTAAATCC	60
TTTCTGAGAG	TCTTAGATGT	TTTTCTATGT	CTCTTCTTTC	TTATTCTCTC	TCTGTTTCTT	120
TCTCTCACTC	ACACACACAC	ACACACACAC	ACACACACCC	CTAAAATTTG	TTCTGAATGG	180
CCCACTAGGG	CTGAATCATT	TAGTGACTTC	ATTGATTACT	ATCCTGAGTT	CTTCTTCCTG	240
CTTCCAGACT	AGTGAAAATA	TTCCAGAAAG	CTTTAATATT	GGAGAAAAGG	CAACGCTCGA	300
G						301

(2) INFORMATION FOR SEQ ID NO:1440:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 251 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1440:

GAATTCGGCT	TCATGGCCTA	GCATTTGGAA	GTAATTTTTT	AAAACAACAT	TCATATTAAT	60
TTAAGGAGCA	TAACAGATTTC	CAGTGAATGT	TATGATTGCG	TATTGTAACA	TTATTCTAGT	120
AAATATGTTG	GAGAAGAACAA	GTTCTAGTGA	ATTAACTATG	GTTTTGGAAG	GCAGCTATGC	180
TCACCATCAT	ACCACCAACA	CAACCATGGT	TTTATTTTAT	ATTATTATT	TTATTTTGAA	240
GACAGAGTCT	C					251

(2) INFORMATION FOR SEQ ID NO:1441:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 274 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1441:

GGAATTGGAA	AGCGTTTCCT	TGCCAACACC	AGAAATCCAG	TCAGATTCT	TACATAGCAA	60
AGTCGAAGCT	CCTCCTTCAG	AGGTGGCGGA	TACGTTAGTA	ATAATGACTG	CTTCCAAGGG	120
TGTTCGACTC	CCAGAACCCA	AAGATAAGAT	TTGGAGACA	CCTCAGAAAA	TGACAGAAAA	180
ATCTGAATCA	AAGACACCAAG	GAGAAGGGAA	AAAGGAAGAT	AAAAGCAGAA	TGGCAGAAC	240
AATGAAAGGC	TACATGAGAC	CCACCAAGCT	CGAG			274

(2) INFORMATION FOR SEQ ID NO:1442:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 274 base pairs

- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1442:

GAATTGGGCC TTCAATGGCCT ACCTTTCTCC ATGTTTAAC	60
GGGCTGGTCC CCATTCTCTG	
CCTCCCTGTC TCCTCAGCCG CCAGAGCCCA GCCCCTCCGA	120
CCAGGCCTCA CCCACCCCCA	
CCCGACCCTT CCCTGAGGGT CCTTTCTCA GTACCACTGA CACTTGAGG	180
CAGGAAACCC AAACCTCCTT AACTAAGGCC TCATTACACCT CGAAAGCAGT	240
GGTGCTTCCC TCTGTTCATC	
CAGGCCATA AAGCCACTGT CCCCTTAAC	274
CGAG	

(2) INFORMATION FOR SEQ ID NO:1443:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 257 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1443:

GAATTGGGCC TTCAATGGCCT AATTGCGCCA TTGCACTCTA GCCTGGCGA CGGAGCAAAA	60
CTCCATCTCA AAAAAAAA AAAAANNN NANTCNGAAA CAGAAAAAAA AAAAAGAATA	120
CACTGCATTG CCATTATCTA GTCACCCGT GTAATATAGC AGCAGAACTC ATGCTTCTG	180
TCTTAACGT AACTTTGTAT CTGCTGACCA ACCTCTCTCC ATCCCCTCCT CCCACCTACC	240
CTCCCCAGTC CCTCGAG	257

(2) INFORMATION FOR SEQ ID NO:1444:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 258 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1444:

GAATTGGGCC TTCAATGGCCT AGGAAGCATT AAATTGGCC ATAGGAAGGA CAAGTCACAT	60
CCAGTTTAGT GATCAATGGT GGTTGGGAA AGAAATAACA GAATTCTACT CCTACATGAT	120
AGGGAGAGAC TACAGAGGCC ACCTAGACCA ACAAACTCTG CCATCAGGTC CTTGAATCAT	180
TGCTACCATG TCCTGGGGT GGTTGTAGCA TTGCTAGTGA TATGTAACTC ATTACCTACT	240
TATGCAAACC ATCTCGAG	258

(2) INFORMATION FOR SEQ ID NO:1445:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 638 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1445:

GGATGGCTAC	GGCAGGGGGT	GGCTCTGGGG	CTGACCCGGG	AAGTCGGGGT	CTCCTTCGCC	60
TTCTGTCTTT	CTGCGTCCTA	CTAGCAGGTT	TGTGCAGGGG	AAACTCAGTG	GAGAGGAAGA	120
TATATATCCC	CTTAAATAAA	ACAGCTCCCT	GTGTTCGCCT	GCTCAACGCC	ACTCATCAGA	180
TTGGCTGCCA	GTCTTCAATT	AGTGGAGACA	CAGGGGTTAT	CCACGTAGTA	GAGAAAGAGG	240
AGGACCTACA	CTGGGTATTG	ACTGATGGCC	CCAACCCCCC	TTACATGGTT	CTGCTGGAGA	300
GCAAGCATT	TACCAAGGGAT	TTAATGGAGA	AGCTGAAAGG	GAGAACCCAGC	CGAATTGCTG	360
GTCTTGCAGT	GTCTTGACC	AAGCCAGTC	CTGCCTCAGG	CTTCTCTCCT	AGTGTACAGT	420
GCCCAAATGA	TGGGTTGGT	GTAACTCCA	ATTCCNATGG	GCCAGAGTTT	GCTCACTGCA	480
GAGAAATACA	GTGGAATTG	CTGGGCAATG	GTGTTGGCTTA	TGAAGACTTT	AGTTTCCCCA	540
TCTTCTTCT	TGAAGATGAA	AATGAAACCA	AAAGTCATCAA	GCAGTGTAT	CAAGATCACA	600
ACCTGAGTCA	GAATNGGTCA	GCACCAACCC	GACTCGAG			638

(2) INFORMATION FOR SEQ ID NO:1446:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 269 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1446:

GCGAGCTCGT	GTTTAAAGG	ACCAAATAGA	AGTTTACCAAG	GAGAGAAAGTG	ACAGAAGTGC	60
TGTCTAGATA	GAGGAAGGGC	ACACACAGAT	GCAAGCATGT	GCAGAAATGA	GCAAACCACT	120
GAGACGCTGC	CTTGAGCTCT	GTGTCAACT	GCTATGTTGC	AGCCTGGGAG	GCTGTTCCA	180
GTTGAGCCCT	TCCGAACCAAG	CCATGAGATG	GCACGGGTAC	GCGGAAGGGA	GCAGTCTCCA	240
TGGCTGGGTG	GTGATGGGGG	CTTCTCGAG				269

(2) INFORMATION FOR SEQ ID NO:1447:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 355 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1447:

GGTCTCTCGC	CGCCGGAGGA	AGATGAGGCT	GAAGATTGGA	TTCATCTTAC	GCAGTTTGCT	60
GGTGGTGGGA	AGCTTCTGG	GGCTAGTGGT	CCTCTGGTCT	TCCCTGACCC	CGGGGCCGGA	120
CGACCCAAGC	CCGCTGAGCA	GGATGAGGGA	AGACAGAGAT	GTCAATGACC	CCATGCCCAA	180
CCGAGGCGGC	AATGGACTAG	CTCCTGGGGA	GGACAGATTC	AAACCTGTGG	TACCATGGCC	240
TCATGTTGAA	GGAGTAGAAG	TGGACTTACA	GTCTATTAGA	AGAATAAACCA	AGGCCAAAAAA	300
TGAACAAGAG	CACCATGCTG	GAGGAGATTG	CCAGAAAGAT	ATCATACTTC	TCGAG	355

(2) INFORMATION FOR SEQ ID NO:1448:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1448:

GAATTCCGGCC	TTCATGGCCT	ATCCTCTGCC	AAGACCAAAA	GGAAAGAAGA	AAAAGGGCCA	60
AAAGCCAAAA	TGAAACTGAT	GTTACTTGT	TTCACCATG	GGCTAAC	TTTGCTAGGA	120
GTTCAAGCCA	TGCCTGCAA	TCGCCTCTCT	TGCTACAGAA	AGATACTAAA	AGATCACAAC	180
TGTCACAACC	TTCCGGAAGG	AGTAGCTGAC	CTGACACAGA	TTGATGTCAA	TGTCAGGAT	240
CATTCTGGG	ATGGGAAGGG	ATGTGAGATG	ATCTGTTACT	GCAACTTCAG	CGAATTGCTC	300
TGCTGCCAA	AAGACGTTT	CTTGGACCA	AAGATCTCTT	TCGTGATTCC	TTGCAACAAAT	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1449:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 267 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1449:

GATTCTTAC	CCAAAGCTCT	GGAATTGTAC	ATTTATTTTT	TAAAACCAA	AGAGGGAAAG	60
AGCCTTGTAT	CATATGTGAA	CATTGTATCA	TAGGTAATGT	TGTACAGACC	CTTTTATACA	120
GTGATCTGTC	TTGTTCTGTC	AGCAAAAATC	CTCTATGGAC	ATAGGAGGTG	CTGTGTCCCA	180
TGCCCTTCTG	CCCTGACAGT	GTCCTGACAGT	GTCCCAGGG	CCCCCTTCTG	CTCCCTGCC	240
ACTGCTGATG	CACTCCCCCC	CCTCGAG				267

(2) INFORMATION FOR SEQ ID NO:1450:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 431 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1450:

GCGATTGAAT	TCTAGACCTG	CCTCGAGACC	TGGGGGGAGA	TTGGGCTCCC	TTTCCTCATG	60
ACATCCTGCC	CTATCAGGAC	TCTGGAGATA	GTGGGAGCGA	CTACCTTTTC	CCAGAACGCTA	120
GTGAAGAAC	AGCAGGACATC	CCGGGAAAGT	CAGAACTTCC	CTACGAAGAG	CTGTGGCTGG	180
AGGAAGGCAA	GCCCAGCCAT	CAGCCTCTCA	CTCGCTCTCT	GAGCGAGAAG	AACAGATGTG	240
ATCAGTTTAG	AGGTTCTGTC	CGATCAAAT	GTGCAGACTTC	TCCTCTTCCC	ATCCCTGGGA	300
CTCTGGGAGC	AGCAGTGAAG	TCTTCAGATA	CTGCCCTTACC	TCCACCTCCA	GTGCCTCCCA	360
AATCTGAAGC	CGTCAGAGAA	GAATGCCGGC	TCCTGAACGC	CCCACCTGTT	CCACCCCGAA	420
GCGCACTCGA	G					431

(2) INFORMATION FOR SEQ ID NO:1451:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1451:

GCCTGCCCCC ACCTTACAGG TCTGGGATGT ACCTTTCCAT CTGTTGCTGC	60
GGGCCCTGC CCTCACTCTC AAGAACCTCA ACTACTCCGT GCGGAGGAG CAAGGGGCCG	120
GCACGGTGT CGGGAACATC GGCAAGGATG CTCGACTGCA GCCTGGCTT CCGCCTGCAG	180
AGCGCGGCCG CGGAGGGCGC AGCAAGTCGG GTAGCTACCG GGTGCTGGAG AACTCCGCAC	240
CGCACCTGCT GGACGTGGAC GCAGACAGCG GGCTCCTCTA CACCAAGCAG CGCATCGACC	300
CGGAGTCCCT GTGCCGCCAC AATNCCAAGT GCCAGCTGTC CCTCGAG	347

(2) INFORMATION FOR SEQ ID NO:1452:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 335 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1452:

GGGGCAGAAG TTGAATATAAC CGGCAATTTT GCGAGCACCC AAGGAGAGAA AACCAAGTAA	60
AAAAGAAGGA GGCACACAAA AGACATCTAC TCTTCCTGCA GTACTTTATA GTTGTGGGAT	120
TTGTAAGAAG AACCATGATC AGCATTTCT TTTATTGTGT GATACCTGTA AACTACATTA	180
CCATCTTGGA TGTCTGGATC CTCCTCTTAC AAGGATGCCA AGAAAGACCA AAAACAGTTA	240
TTGGCAGTGC TCGGAATGTG ACCAGGCAAG GAGCAGTGAC ATGGAAGCAG ATATGGCCAT	300
GGAAACCCCTA CCAGATGGAA CCAAAACAAC TCGAG	335

(2) INFORMATION FOR SEQ ID NO:1453:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 627 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1453:

GCGATTGAAT TCTAGACCTG CCTCGAGATC CCCATGACTC CTACATCCTC TTTTGTGTCT	60
CCGCCACAC CCACTGCCTC ACCTCATTC AACCAGGACCA CACCGCTGA AGCGGCCAG	120
AATGGCCAGT CCCCCATGGC AGCCCTGATC TTAGTAGCAG ACAATGCAGG GGGCAGTCAT	180
GCCTCAAAAG ATGCCAACCA GGTTCACTCC ACTACCAGGA GGAATAGCAA CAGTCCGCC	240
TCTCCGTCTT CTATGAACCA AAGAAGGCTG GGCCCCAGAG AGGTGGGGGG CCAGGGAGCA	300
GGCAACACAG GAGGACTGGA GCCAGTGAC CCTGCCAGCC TCCCAGACTC CTCTCTGGCA	360
ACCAGTGCCTT CGCTGTGCTG CACCCCTCTGC CACGAGCGGC TGGAGGACAC CCATTTGTG	420
CAGTGGCCGT CGCTCCCTTC GCACAAGTTC TGCTTCCCTT GCTCCAGACA AAGCATCAA	480
CAGCAGGGAG CTAGTGGAGA GGTCTATTGT CCCAGTGGGG AAAAATGCC CTTGTGGGC	540
TCCAATGTCC CCTGGGCCTT TATGCAAGGG GAAATTGCAA CCATCCTGTC TGGAGATGTG	600
AAAGTGGAAA AAGGAGAGCG ACTCGAG	627

(2) INFORMATION FOR SEQ ID NO:1454:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 394 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1454:

GAACTTTGAC ACCTACACTT AAATTCTGAG TCATTAACCA GGCCTACATT TATCAACTGT	60
GGAAATATCA GCCAGTTTT GCAAACCTCT TCTTAGGACA CTAAGTTGTT TGCAGAAATC	120
ACTAGCATTG ACTGACTCTAG CAACAAATGTG GTTATATTCT TTGATTAAC TAGTCCTTT	180
TCTTGGTCAA GAGTCAGTAG ACAGGACTGA AGCTTATGCC CCTTGCCCCC CCACCCACCAC	240
TCCATTACTA CCACCTTGGT TTAGCCATCC TTTCTTGATC TGTTCTCCCC ACTTCTACTG	300
TGCTACTCTA CAGACTTGCC CTGAATGTAA GAGCAACAAAT TACCTTGTAA AGTCCAAGTT	360
GGGGCAGGTC ACTCCCAAAC TCCACAACCT CGAG	394

(2) INFORMATION FOR SEQ ID NO:1455:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 381 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1455:

CAGATGTTCA GATATATCTT GAATTTTCTA CGAACATCCA AACTCCTCAT TCCTGATGAT	60
TTCAAGGACT ACACCTTGTGTT ATATGAAGAG GCAAAATATT TTCAGCTTCA GCCCATGTTG	120
TTGGAGATGG AAAGATGGAA GCAGGACAGA GAAACTGGTC GATTTCAAG GCCCTGTGAG	180
TGCCTCGTCG TGCGTGTGGC CCCAGACCTC GGAGAAAGGA TCACGCTAAG CGGTGACAAA	240
TCCTTGATAG AAGAAGTATT TCCAGAGATC GGCAGCTGTA TGTGAACTC TGTCAATGCA	300
GGCTGGAATC ACCGACTCGAC GCACGTCATC AGGTTTCCAC TAAATGGCTA CTGTCACCTC	360
AACTCAGTCC AGGTCCCTCGA G	381

(2) INFORMATION FOR SEQ ID NO:1456:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 309 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1456:

GGTGACGCCT GCTTCACATC TCTAATGAAC ACCCTCATGA CGTCGCTACC AGCACTAGTG	60
CAGCAACAGG GAAGGCTGCT TCTGGCTGCT AATGTGGCCA CCCTGGGGCT CCTCATGGCC	120
CGGCTCCTTA GCACCTCTCC AGCTCTTCAG GGAACACCCAG CATCCCGAGG GTTCTTCGCA	180
GCTGCCATCC TCTTCCTATC ACAGTCCCAC GTGGCGCGGG CCACCCGGG CTCAGACCAG	240
GCAGTGCTAG CCCTGTCCCC TGAGTATGAG GGCATCTGGG CCGACCTGCA GGAGCTCTGG	300
TTCCCTCGAG	309

(2) INFORMATION FOR SEQ ID NO:1457:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 374 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1457:

GCACATTAA ACAGATACAA CACAGAATAG TATGTATAGA GCATGGTATG TAGCAGGGC	60
CTATTCTGT CTGAGTGGAC AAGGAGGCTT CCTAGAGGAA GCAACATTTA AAGCTGAGGG	120
CTGAAGGATG AATAGGATT AACCAGTAA AGTAAGAAA GGAAGTGGGG AGCTGGAAAG	180
GGCATTCCAG GAAGAAGAAA CTGCATGTGC AAAGGCCAGG AGGTCAGAGC GCACAGTGGA	240
TATGACGATG TGGCTAGCTG AGCATGTCTG TGCAGTGTCA ACTTTGTTGT GAACACAGAG	300
GGAGGCTACT GGAAATTAA AAGCAAGAGA GTTGGAGTAT GATCACATTT GCATGTTAGA	360
AAGACACACT CGAG	374

(2) INFORMATION FOR SEQ ID NO:1458:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 316 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1458:

GAATTGGCC TTCATGGCCT ACATATTTAT TATGTCAACC TGTACTTCCC TTTCCCTCTT	60
CCTCTCCCTC TTTTCTCTCC CTCTCCCTCT CTCTCTCTTC CTTCCCTCCCC TTCCAGGTAC	120
CCTAGATGAA CCATGGGAGG TCCTGGCTAC ACAGCCATTC TGTCTGAGAG AGTCTGAGGA	180
CTCTGAGACC CAGCCTTTG ACACCCACCT TGAGGCCTAT GGACCTTGCC TGTCTCCACC	240
TAGGGCAATA CCAGGAGACC AACATCCAGA GAGCCCAGTT CACACAGAGC CAATGGGGAT	300
TCCGGGCAGG CTCGAG	316

(2) INFORMATION FOR SEQ ID NO:1459:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 417 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1459:

GGAAACCACCA ATTCCGGACA CACTGGGATT ACAGTCCAG GAAGGATGTT ACCTTGACG	60
ATGACAGTGT TAATCTGCT GCTGCTCCCC ACGGGTCAGG CTGCCCAAA GGATGGAGTC	120
ACAAGGCCAG ACTCTGAAGT GCAGCATCAG CTCCCTGCCA ACCCCTCCA GCCAGGCCAG	180
GAGCAGCTCG GACTCTGCA GAGCTACCTA AAGGGACTAG GAAGGACAGA ACTGCAACTG	240
GAGCATCTGA GCCGGGAGCA GGTTCTCCTC TACCTCTTGC CCCTCCATGA CTATGACCAG	300
AGTGGACAGC TGGATGGCCT GGAGCTGCTG TCCATGTTGA CAGCTGCTCT GGCCCTGGA	360
GCTGCCAACT CTCCCTACAC CAACCCGGTG ATCTTGATAG TGGACAAAGT GCTCGAG	417

(2) INFORMATION FOR SEQ ID NO:1460:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 222 base pairs
- (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1460:

GAATTCCGGCC TTCATGGCCT ACTGAGAAAA AAAATCAAAT CTAATTTAA AATGAAGGTA	60
TTTAAAACCA TGGCACAGG GAGCCTTATT TATGGAGCTG GTGGGAAGCC AGGATGTTTC	120
CAATCCGCTG CTCTTACAGG AGCCTGTGCC TCGCCAGTTC TGTGCTGCAG TGGGCAGCCA	180
ACTGAAGTGC ATGAGTCAA TGACAGAAGC AGCAGACTCG AG	222

(2) INFORMATION FOR SEQ ID NO:1461:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 256 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1461:

GCTGCCTCCA TACTGTTTA GGCAGCACCG TTTATGTGAC AGAGTCCGTG TTTCTCAAAT	60
GCATGGTGTT CCTCAGGTGG AGAGTGGGCA GAAGTTTTTG CAACACTTTT TTTTTAAGTT	120
ATTGGGTGCA AAATCCAAA CCAGGATATG TGTATGTCTG TGTGTTTATG TTTTTTATTT	180
GACCCTCCCC TCTTTCAACC TACCCCTTT TATATCTAAT GTAGAAAAG CGAAATTGAA	240
TCTGGAAAAA CTCGAG	256

(2) INFORMATION FOR SEQ ID NO:1462:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 250 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1462:

GGGGGTGGAA GGCGTAGTGC TTGAAATGCA GGGATCTGGC AGTCAGCAGA AGGATCTGAG	60
ACCCAGTGTGTC GAGGTTAAAA AAAAAACAAA AAACCAAAAA CCAATGCAGG AATCCAGTGG	120
GTGGAGTGAG GGGATCTGGG ATCCAGTGTAT GGGGGCCCA GGATCCAGGC ATTGTGGTTG	180
TCAGGATCCA GTGGTGAGGT TTGTTGACAT CCAGAATCCA GCAGCTGAGC TTGGAGATCC	240
AGGGCTCGAG	250

(2) INFORMATION FOR SEQ ID NO:1463:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 279 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1463:

GAATTCTGGCC	TTCATGGCCT	AAGTTTATAA	AAATTCAGC	CAGAAAAACC	CAGGTAAGGA	60
TTTTTTTAT	TTTTTTTTA	TTTTTATTT	TAGACCAGGT	GAGAACCTT	TGTCCACTG	120
AGATTTAAA	ATTTAGTACA	TCAAAATTG	ATATTTCTAC	CATTTCTCA	GCCTGTTGT	180
CTTCTTATCT	TTGAGCACT	GCTTATTGCC	ATCACTGCTT	ATCTGTTCAC	TCAACTTGAA	240
ACCTCAGAAT	TGTCCTTGAC	CTCATCCCCA	CATCTCGAG			279

(2) INFORMATION FOR SEQ ID NO:1464:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 266 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1464:

GAATTCTGGCC	TTCATGGCCT	AGGCCATTG	GTTCTAAACT	GCTTGACTAG	TTTAAGCTC	60
ACATAATTCC	TTAAGCTTC	ATATTTCCTT	AAATGCAAGG	AAATGAATAT	AAAAGCACTA	120
AATCTCCTGG	TTCACTGGTA	CAAAAATTAC	AATGGTCAGT	TCCCTTAGGT	CATCAAAAAC	180
TAGTCACAAA	AATAGTTCTT	GTATTCAAC	TGAATGTGCC	ACAGGAAAAA	AAAAATATTT	240
TCAAGATTTC	CCAGCTCAGC	CTCGAG				266

(2) INFORMATION FOR SEQ ID NO:1465:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 259 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1465:

GAATTCTGGCC	TTCATGGCCT	AAACATTTTC	TGAAAAACGT	GATAGAAAGA	AGGAGGAGCT	60
GTTCTAGGA	GGGAAATAAA	TAATTGGCA	GGAGACTTTT	TGAAGTAGAT	ATCTATTGAA	120
TAACAAAGTG	ACAAATGTTCC	CCATCCCTC	ATTTCCATT	CCAATTTCAC	TTCTCGTCCC	180
AATTCAAATC	ATTCTTACTT	ATGATCGGCG	CTATGTCAGT	GCCTCTCAGC	TGGTCTTCCC	240
AGACCCAGTC	ACCCCTCGAG					259

(2) INFORMATION FOR SEQ ID NO:1466:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 332 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1466:

GCGCCTATCA	CAAGCAGATC	ATGGGTGGCT	TCAAGGAGAC	GAAGGAGGCT	GAAGATGGCT	60
TCCGCAAGGC	CCAGAAGCCT	TGGGCAAGA	AGATGAAGGA	GCTGGAGGCA	GCCAAGAAGG	120
CCTACCATT	GGCTTGCAA	GAGGAAAAGC	TGGCCATGAC	ACGGGAGATG	AACAGCAAGA	180
CGGAGCAATC	GGTCACACCT	GAGCAGCAA	AGAAGCTGCA	GGACAAGTG	GACAAGTGCA	240

AGCAGGATGT GCAGAAGACA CAGGAGAACT ATGAGAAAAT GCTGGAAGAT GTGGGCAAGA	300
CCACACCCCA GTACATGGAG AACAAACTCG AG	332

(2) INFORMATION FOR SEQ ID NO:1467:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 301 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1467:

GCTCGAGATG TGCTGTCTTC CATGCAAAGT GGAATTGAC AATCACTGTG CCGTGCCTTG	60
GGACATCCTG AAAGCCAGCA TGAACACATC CTCTAACCTT GGGACACCGC TTCCGCTCCC	120
CCTCCGAATT CAGAATGACC TCCACCGACA GCAGTACTCC TATATTGATG CCGTCTGTAA	180
CGAGAAACAG CTCCATTGGT TTGCAAAGTT TTTCCCCTAT CTGGTGCTCT TGCACACGCT	240
CATCTTGCA GCCTGCAGCA ACTTTGGCT TCACTACCCCC AGTACCAGTT CCAGGCTCGA	300
G	301

(2) INFORMATION FOR SEQ ID NO:1468:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 436 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1468:

GAATTCGGCC TTCATGGCCT AGTGGAAAAT GGGAGGCATG AAATACATCT TTTCGTTGTT	60
GTTCTTCTT TTGCTAGAAC GAGGCAAAAC AGAGCAAGTA AAACATTCAAG AGACATATTG	120
CATGTTCAA GACAAGAACAT ACAGAGTGGG TGAGAGATGG CATCCTTACCG TGGAACCTTA	180
TGGGTTGGTT TACTGCGTGA ACTGCATCTG CTCAGAGAAC GGGAAATGTGC TTTGCAGCCG	240
AGTCAGATGT CCAAATGTTC ATTGCCTTTC TCCTGTGCAT ATTCCCTCATC TGTGCTGCC	300
TCGCTGCCCA GAAGACTCCT TACCCCCAGT GAACAATAAG GTGACCAGCA AGTCTTGCAGA	360
GTACAATGGG ACAACTTACCA AACATGGAGA GCTGTTCGTA GCTGAAGGGC TCTTCAGAA	420
TCGGCAACCA CTCGAG	436

(2) INFORMATION FOR SEQ ID NO:1469:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 297 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1469:

GAATTCGGCC TTCATGGCCT AGTCTGGCAG ACAGAGCGAG ACCTTGTCTC AAAAAAAAAAA	60
AAAAAAAAAAAC AAAGTAAAAA AAGATATGTG TTTGATTAAT AACAGTCCTG ATTTAAAAACA	120
ACAGCACTGT CTTTGAGCC TTCACTCAGT ATGCAACTCC TTTATACAGA TTTTATTTTA	180
ATTTTATAAA CACACTGCTT GAGAACATAA TTTATTTCCG TTTTGTGTG TGCATGTGGT	240

GGACAGGAAA CAGTGGTTCA GAGAGATGAA GCACCCTGCC CACCACATGC ACTCGAG

297

(2) INFORMATION FOR SEQ ID NO:1470:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 325 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1470:

GAATTCTGGCC TTCATGGCCT AGGACCTATT CTATCAGCAG CATTGACAC CACTGATTAC	60
TCATTCTGCT CTGGGTGACT TTCTTCAATT GCTTCCAAGA CACCATAAAAT TCTTCTGCCT	120
TGCTGGCTGC CTTTGCTGGT TCCTCCTCTT CTCCCCTGACC TCTTAATGTT GGAGAACAC	180
AGGGCTTAGT CCTTGGTCCT CTTCTCTCTT TTCTTACAC TGTGGTCCTC AGTGAGGGAG	240
ATAGGTAGAT CCACTGTCCC GATCTTAACC CAAAGAAAGA CTTGCTGTCC AGCTACGGGG	300
GCTGTGGTCA GAAGGCAGCC TCGAG	325

(2) INFORMATION FOR SEQ ID NO:1471:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 421 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1471:

GAATTCTGGCC TTCATGGCCT ACAAAAGGAT GGGAAATGCC TGCATTCCCC TGAAAAGAAT	60
TGCTTATTTCT CTATGTCTCT TATCTGCGCT TTTGCTGACT GAGGGGAAGA AACCAAGCGAA	120
GCCAAAAATGC CCTGCCGTGT GTACTTGTAC CAAAGATAAT GCTTTATGTG AGAATGCCAG	180
ATCCATTCCA CGCACCGTTC CTCCTGATGT TATCTCATTA TCCTTTGTGA GATCTGGTTT	240
TACTGAAATC TCAGAAGGGA GTTTTTATT CACGCCATCG CTGCAGCTCT TGTTATTAC	300
ATCGAAACTCC TTTGATGTGA TCAGTGTGA TGCTTTTATT GGTCTTCCAC ATCTAGAGTA	360
TTTATTCCATA GAAAACAACA ACATCAAGTC AATTCAAGA CATACTTCC GGGTACTCGA	420
G	421

(2) INFORMATION FOR SEQ ID NO:1472:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 233 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1472:

GAATTCTGGCC TTCATGGCCT AGTACTCCAT CTCATCCATC TCATGGTAGT TCAGAAATGC	60
CTATATTCCCT CTCTAAATTG ACCAGGAGTT TTGTTTTTC TTTCACCCCCC TTTTTGCCTT	120
TCTTATTTTC ATCCTTCCAT TTCACTCATT TCCACTCATG TTTAGCAGTT TCTATCCTTT	180
TCTTCTGG CGTTTTAGCG TCACACATAG AAACCTATCA CCATCAGCCC TCG	233

(2) INFORMATION FOR SEQ ID NO:1473:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 253 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1473:

GGGATTGAAT TCTAGTTGCC TACCTACCAA ACTACCTACT GAACTTTTA ATTGAAGAT	60
ATTCTTCCTG GACTACTGT TTATAGTTA TTAATGAAC TGCTCTATT CTAAAAACTT	120
TATTTTAAAGT GTCCTTCCTC GTTCTAGAATG CGGCATACTC TTGCTTGTT GGATATATTC	180
TCTGATCGTG ATAATCACCT ACCGAAAACC TTTCATGGCT CCTTGCCAAC TACAAAATTG	240
CGATATCCTC GAG	253

(2) INFORMATION FOR SEQ ID NO:1474:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 424 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1474:

GAATTCCGGNC TTCATGGCCT ACCGCAAGTT CCTCCTGACC TTCAGGGAGC CTGACTTAGA	60
GAAGAACGTAC TCCAAGCAGG TAGACGACCG ATTTGGTGCCT ATGTGGCGT GTGCCTCGCT	120
CGTCTTCCTC TTTCATCTGCT TTGTCAGAT CACCATCGTG CCCCACTCCA TATTCTATGCT	180
CAGCTTCTAC CTGACCTGTT CCCTGCTGCT GACCTGGTG GTGTTTGTGT CTGTGATCTA	240
CTCCTGCGTA AAGCTCTTCC CCTCCCCACT GCAGACCCCTC TCCAGGAAGA TCCTGCGGTC	300
CAAGATGAAC AGCACCCCTGG TTGGGGTGTGTT CACCATCACC CTGGTGTTC TGCGGGCTTT	360
TGTCACATGTTTACACGTGCA ACTCCAGGGA CCTGCTGGGC TGCTTGGCAC AGGAGCGTCT	420
CGAG	424

(2) INFORMATION FOR SEQ ID NO:1475:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1475:

GAATTCCGGCC TTCATGGCCT ACTCTGTGTT GGTAAGTAAA AGCCCTCCAG CATAGGTATA	60
CACTTAGTTG TTCCCTTCCAG TGGTTATCAT ACTTCTTTTC TTGCCATAGT TACATGCTAA	120
CAACGTCCCA AAGCTATAGT TGCTCTTGCA TTTTGTCTT AATTCTGTAA AGATAAAACTA	180
ATAATACAGG GAGTAAATGT GCACTGTTA TTAATTAAGA TCCCCGGGAC ACAGGATAAA	240
CTGAAGGAAA TCGTGTCTT TGAAAAGTAG GTGTAGCTTG CCATGCTGCA TTGTCTTATA	300
CCCACAAAAC TCGAG	315

(2) INFORMATION FOR SEQ ID NO:1476:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 321 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1476:

GAATTGGGCC TTCATGGCCT AGCCATCATG TTTATTAGAA GGTTGGATT TGTTGTGTGC	60
TCTAGACAGA TACAGAATAA ATACCTGCGC CTTGAGAACAA GGAAGTCCAC GATTCA	120
AAGTGCTCAC TACAGGAAGT TGCTGTGTCA AAATCCAGGC AAGGACCCAA CTCCGGCAG	180
CCCCTCTCC CTGCTGACCT CAACAAGGGC TGTCATTG TTTTTTATT TATTATTTA	240
TTTCTCTTTA TTATTATTA TATTATTATT ATTGCTTT GCTGTGGTCA CTATCATTGG	300
CAAAGTTCCCT TTCCCTCGA G	321

(2) INFORMATION FOR SEQ ID NO:1477:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 215 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1477:

GAATTGGGCC TTCATGGCCT AAGCAAAGCT AAGTGTAAAAA CTAAAAAGCA GTTTGTTGCA	60
ACTGGTCATA AAAGTGATTA AATCTAAAGC TGGCATTAAT AAGGAAGCAA GGTAAATAAAA	120
CAAAATATA AACAGCTTG AGAAAGTACA CCTAATAACA AAATCTTGTAA ACACAACAAA	180
TGAAAATCAC AAAAAATATA AGGAGACTCC TCGAG	215

(2) INFORMATION FOR SEQ ID NO:1478:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 291 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1478:

GAATTGGGCC TTCATGGCCT AATCGGTCTC CTTTGGAGAG ATCACTAGAA CAGAAAAACA	60
ACCCAGATTA TAACTGGAAT GTTCGGAAAA CATAAAGGAC AGCTCGTAA GGAGAGAGTA	120
AGAGTCACCA AACACGTGGA TATTTTTGGT CTGATCCTAC AGTAGCCGGT TATCTAGACC	180
AGTAAGTGGAA GTTTGGACA TGCTGCTGCT GTCAAACTCAC TGGCTGAAGG AGCACATTCAA	240
GGAATGGGAG GCCTTTCACT GGGTCCAGCT CTGATTCGGA TCACTCTCGA G	291

(2) INFORMATION FOR SEQ ID NO:1479:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 514 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1479:

GAATTCGGCC	TTCATGGCCT	AGAGAAAGAA	ATGGCTCGAA	CAGAAAACAG	TGGTCTTGAA	60
AGGCAACGCA	ACAGTAGGTT	ACAAATAGCA	TTAGCTTTT	CTTTAAAGAA	ATTCAATTGTA	120
ACCAGTGAAG	GATAAGATT	TAAATTAGAA	AAAATGAAAT	CCTATGAATA	AAAAACTAGT	180
AAGCTTGAGA	GCAGAACATCAC	TGTGGAAAAA	AAACAGATTG	AAAAATAACT	TGCAGGTATC	240
ATAGACAGGA	AATTGCCACT	AGAGAAAACA	GGAAAACCTGT	GATAGATAAA	AATGAAGTAT	300
TTTCATTGGA	ACAAAGAGAC	CAACTGAAGA	GAGATCAAGT	GAAGGGGGTT	TATTTTAATG	360
AAACACAAAG	ATTCTTGTGG	AAATCAAAGT	GCCGGAGCCA	GAAACAGGGC	TCAACCTTCA	420
AGATTAGAGC	TGTATTCAAG	TTGTTCAAGT	TGGCTCTCGG	TCCCAAAGCA	ACAGCAATGT	480
CACTAAGGTT	ACAAGTAAAAA	GGTAAGCCCT	CGAG			514

(2) INFORMATION FOR SEQ ID NO:1480:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 194 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1480:

GAATTCTAGA	CCTGCCCTC	CACTGCTCCC	CATACCTGG	CACGATGCGT	TCCTGGTCAC	60
TGATCACCAT	CATTTTGGGA	AGAGAAATCCC	AATCCCTGGC	ACCTGGGTTT	GCCTCATCCA	120
ACCATCCCTC	CCTTTCTCAG	CTGCACCCCC	TCTGCAGATC	TGAAGACACA	CCTCACTCTT	180
CCAGGGCCCT	CGAG					194

(2) INFORMATION FOR SEQ ID NO:1481:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 385 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1481:

GACCGCGCCCG	GCCTCCTCTT	TCATTTCACT	ATACGTAATA	AGAAGTCAGA	AATTACCTTT	60
AACCAAGCCT	GGAAATCTCC	TTATCTAGAT	CATTATATTTC	TTTAGGTACA	TTTTTTACTT	120
TCTACATTAC	CACTCACAAAC	AATATTGCTA	AATTTTTTCC	TCTAAATAAG	AAGGATTCCC	180
TTTTTCTAAT	AAACATTCTCT	TTATTTTTCT	TTAACCTTTTC	ACTGAAAGCC	CCCTCAAAAG	240
CTACCTGGCT	TATGCTAAC	GTATGTTGA	TGTCCTTTCA	ATACTACTCT	GTTCATCT	300
GTCTAGCATC	CACCTGCCTC	CCAATCTCAA	AGTCTCCATC	ATATTTGTC	AGTTTTAGT	360
TTTTTTGTTA	TGGTGCAACC	TCGAG				385

(2) INFORMATION FOR SEQ ID NO:1482:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 376 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1482:

GAATTCCGCC	TTCATGGCCT	AGGTTCTGGG	ATAGCTGATT	GTTGGCCACC	CCCGCCCTGG	60
AATGGAAACC	CTGTTAGGCC	AGGGCCAGAG	CAGGTGGCCA	TGAAGCAAGA	CGGCAAAGGC	120
ATGGGAGGAT	GTCCCACCTC	CACACATACG	CCCAGGCATT	TCTTGGCTGG	GGAAATGGTGT	180
TACAGGATCC	ACAAGCACAG	AGATGGGAAA	ACAGTGTGTC	TGGGAAACAC	CAAGAGTTGG	240
GGTGCCTGG	AGGACAGATA	GACTCAGGGG	GGACATCCAG	AGGTAACACT	AGGTCCGCAG	300
GTGGGTTCA	AGGCCCCAGC	TCTATCCCCT	TATTCCCAGC	CGGATTAAAG	AATAATCTGA	360
GTATGGTTCC	CTCGAG					376

(2) INFORMATION FOR SEQ ID NO:1483:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 347 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1483:

GAATTCCGCC	TTCATGGCCT	ATGGATCCAT	CATGGGACAA	TTACTAGTTA	TTTACTTTCC	60
TCCGCTTCAG	AAGGTTTTTC	AGACTGAGAG	CCTAACATA	CTGGATCTGT	TGTTTCTTT	120
GGGCTCTACC	TCATCAGTGT	GCATAGTGGC	AGGCCTGGTC	AGTAATCTTC	TCTACTGTTA	180
TAGTACAGCA	GCTTTAGGT	CCACTGATTG	CATTCTTAAT	TTGAGTATTT	AATATTTATT	240
TTATAACCT	AAGGTTTTCA	TTTGTCACTA	TAGCATGGTC	TCATAATTT	CAAAAAATCA	300
GAAAACAGTA	GATGTTGGCG	TGGATGCAGT	GAACAGGGTT	ACTCGAG		347

(2) INFORMATION FOR SEQ ID NO:1484:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 709 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1484:

GAATTCCGCC	TTCATGGCCT	ACGAGAAATAT	TGTGGAGAAC	TGGTCAGTAG	AAGAACAAAGC	60
AATGAAATG	GATTTGAGTG	TCCTTCAACA	GTAGAAAGAT	CTAGAAAGGA	GAGTTGCATC	120
AGCAAGTTG	CAAGTGAAGG	GTTGGATGTG	TCCAGAGCCT	GCATCAGAAA	GGGAGGACTT	180
GGTATATTTT	GAACATAAAT	CATTTACTAA	ATTGTGCAAG	GAGCATGATG	GAGAATTTCAC	240
TGGCGAAGAC	GAAAGCAGTG	CACATGCACT	AGAACCGGAAG	AGTGACAACC	CCCTAGATAT	300
AGCTGTAACC	AGGCTGGCTG	ATTGGAGCG	GAACATTGAA	AGAAGGTATC	TGAAGAGGCC	360
CTTAAGTACC	ACCATTCAAGA	TCAAACCTGGA	TAATGTGGGC	ACAGTTACTG	TCCCTGCTCC	420
TGCACCATCC	GTTAGTGGTG	ATGGTGACGG	AATTGAAGAG	GATATTGCTC	CAGGGCTCAG	480
GGTATGGAGA	AGGGCATTAT	CAGAACGCTCG	CAGTGCTCA	CAGGTAGCTC	TGTGCATTCA	540
GCAATTACAG	AAATCAATAG	CATGGGAAAA	ATCAATTATG	AAAGTTACT	GCCAAATCTG	600
TCGAAAGGGA	GATAATGAAG	AACTGCTCT	TCTTTGTGAT	GGCTGTGACA	AAGGCTGTCA	660
TACCTACTGC	CATAGACCCA	AGATTACAAC	AATCCCAGAT	GCTCTCGAG		709

(2) INFORMATION FOR SEQ ID NO:1485:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 272 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1485:

GAATTGGCC TTCATGGCCT ACTGTTCAAG AACTTCCGTA CCTTTTCTT GTATGTAGCA	60
CGTATAATG CAGCTGTCAT GCAGTTCTT TCTTTGCTA GAAAATTAGT CAGGAGGTAA	120
GATGAATCTT CCAAAGTTAT GTTAAATTTT GTTTAACCTG ACAAAATTAAA CTTTGTCTT	180
ATTAACAAA TACGTAAACA AATACTGGAA AAGCAAAGCT TATATTTGGG AGTAAAATGT	240
ATCTAAAAT GCATGTTCAA CTTTGCTCG AG	272

(2) INFORMATION FOR SEQ ID NO:1486:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 350 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1486:

GAATTGGCC TTCATGGCCT ACCGAGGACG AGGGGAAGAT GTCACGCAAG ATAGAAGGCT	60
TTTTGTTATT ACTTCTCTTT GGCTATGAAG CCACATTGGG ATTATCGTCT ACCGAGGATG	120
AAGGCAGGA CCCCTGGTAC CAAAAAGCAT GCAAGTGCAG TTGCCAAGGA GGACCCAATG	180
CTCTGTGGTC TGCAGGTGCC ACCTCCTTGG ACTGTATACC AGAATGCCA TATCACAAGC	240
CTCTGGTTT CGAGTCAGGG GAGGTACAC CGGACCAAGAT CACCTGCTCT AACCCGGAGC	300
AGTATGTGGG CTGGTATTCT TCGTGGACTG CAAACAAGGC CCATCTCGAG	350

(2) INFORMATION FOR SEQ ID NO:1487:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 276 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1487:

GAATTGGCC TTCATGGCCT AGTACCTGAA GGCTTCAAG GTGGCCTACA GCCTTAATGG	60
ACACGAATTC GATTCATCC ATGATGTTAA TAAAAAACAC AAGGAGTTG TGGGTAACTG	120
GAACAAAAAC GCGGTGCATG TCAACCTGTT TGAGACCCCT GTGGAGGCTC AGTACGTGAG	180
ATTGTACCCC ACGAGCTGCC ACACGGCCTG CACTCTGCGC TTTGAGCTAC TGGGCTGTGA	240
GCTGAACGGA TGCGCCAATC CCCTGGCGT CTCGAG	276

(2) INFORMATION FOR SEQ ID NO:1488:

- (i) SEQUENCE CHARACTERISTICS:

 - (A) LENGTH: 595 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: double
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1488:

GAATTGGGCC	TTCATGGCCT	AGTGGAGATT	ACTTGGCACCC	ACTCTCC	TTT	CACAGAGCAG	60
AGTCTGAATA	GTCTTCAGAG	ATAGGCCTGT	GGGCCAGATT	GCCATCCC	CT	ATGGACCAGA	120
AGCCAAGGAT	CTCTCTAGTG	ATGGTCAGAG	GGCCCAAATG	GCAGGGATA	C	CCAGTGTATGT	180
CAGGAGGAAT	AGTACAGACA	GAAGGTGCTA	AGCAGACAAAT	TCAACTGCCA	.T	TGTTTGCCA	240
CCCCCTGTGA	GCAGGGATT	GGTGTTCAGG	CCAGTATCTT	GGGCATGGG	GAGCCTTTGG	300	
CCAGAAGAGG	TATAAAGCTC	AGAAGTTTT	CAGTCTGATA	ACTATTGATA	TAATTTC	CAT	360
AGTGTGAGGG	AGCGGTATGC	TCTACCC	TTG	TGTTTAAG	GCAGGACAGA	GAAATTGAGG	420
ATGCCCTGG	GGCTAGATCG	ATGATATGAC	CAGAAATCAA	AAAGGGAATG	CATTATTTAT	TGCTGTGAA	480
AAGGTCTCAG	CACTGTTAAG	AGAGGAGGT	GTAAAGGGAT	GGATAGGCAC	ATAGAGAGGG	AAGAAAGGAAC	540
						TATGTTACA	595
						AGAACAAACAC	
						TCGAG	

(2) INFORMATION FOR SEQ ID NO:1489:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 297 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1489:

GAATTGGGCC	TTCATGGCCT	ACAATTAAAT	AGTATAACAA	ATCCCCTAGA	ATAGTAGAGG	60
AGAGAGGAAT	CTTCCCTGA	TATGTTTTG	TAATACTTCT	TCCTCCTCTT	CAGTCATAG	120
GGAAATGTTT	GTTGAAAGAC	TACTTGCAG	ACATTTAGAA	AGATACAGAG	TAAGTGTAA	180
ATGTCCTCC	TTGTCCTGA	GGAGTCTCTA	GTCAGGCACA	GGTAGGACTA	AATGAAAAAC	240
AACTACAGAA	CTAAGTAGAA	GAGTGTACAA	TAATATGGGG	AATGTGGAAC	ACTCGAG	297

(2) INFORMATION FOR SEQ ID NO:1490:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 273 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1490:

GAATTGGGCC	TTCATGGCCT	ACTTACTTTT	CCAAAGAATT	TTTCCACCT	GGAATAAGAA	60	
GAGAGGACTA	GTTGAAACAT	TTGAGCTGA	GAGGCTTATG	GGCAATATGA	AGTGGGCCAA	120	
ATTCTTGCAA	TACACCC	TAT	TCAATTGAAA	GTACAGTGT	TAAGGATAAG	AATACTTCTT	180
TAAAGACCAA	CAATTGTTT	AATGCAATCT	TAATTAGTAA	ATGGTTACA	TTTTTCTAT	TGTTATTGGT	240
TTTAAATTT	GCTACCGCTC	GAG					273

(2) INFORMATION FOR SEQ ID NO:1491:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 660 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1491:

GAATTCGGCC	TTCATGGCCT	ATTGAATTCT	AGACCTGCCT	CAGGGTAAGG	GAGATTTAAT	60
CTTTTCTTT	ACTATTTCT	AGTTTCTATG	AGCATGGATT	ACTTGTGCAA	ATCAAAACAA	120
AACAAACGGA	TGGCTCATCC	GGCAAACATC	CATGGGCAGG	GTTGGTCTCG	GTTGCTGGAC	180
GCAGAGATGA	ATGGAGGGCT	CTGGCCTCAG	CGGCTCACAG	TCTGGTGAGC	ATAGACAGTG	240
CTTCGATGT	GAGAGCAGAC	CTGAGTGTCTG	CCTGGGACTC	CAGGGCACAGT	TCTCCCTGCA	300
GCTCACAGCA	CTTACCCCTTA	CTGCACCATT	AACTTCTACT	CTAGCTCACT	GCCTCTAAC	360
TCTGAGCGCC	TTGAAGGCAC	AAAATGAGTC	CCATCTGGGT	CTTTAGCAGC	TGGCAGAAAA	420
CCTAGCTCAA	ACTCATGCTC	AAAAAACCCC	TGCTGAGGGGA	GTGGGCGAAT	GCAGGCAGCC	480
CTGGCAGTGG	GATCAAGTTC	AGGGAGTGGC	ACTGGAGGCA	TCACCCCCAAG	GCTGAGAAGA	540
CCTTGAACCTG	CTGTTCTAGGG	TTTTGCTGTC	TCTCCCAAGG	CATGACTCGG	CCCAGGAGGA	600
GATGGGGCAG	ATGCTGCAGA	AGGAGGGTTC	ATGCCCTCTCC	ACTGCTGCC	ATGACTCGAG	660

(2) INFORMATION FOR SEQ ID NO:1492:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 315 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1492:

GCTGTGCTAT	CTGTTGTCCA	GCATCTGACA	CAGTTGGTTT	TATATTGT	CTGGTTTCTA	60
GTTATTAAGC	AGGTTAACGTC	TGGTTCTGC	TGTTCTATAT	AGCAGGAAGC	AAAGGTTCTC	120
TCATGAATTT	TTAGCATAAT	AACATAAGCG	TGGATTCCAA	AAATTCAATTA	CACAGATCCT	180
GGAAATCTGT	TTACTATGTT	TTATACATTC	TGTGAAAGCT	GGAGAAATATA	TATTTGTTTT	240
ACTATGTGTA	TCGCAAATAA	AATATCAATT	TCATGTGCCA	GAGAATTGAA	TACATTATCA	300
AAGGGTCAAC	TCGAG					315

(2) INFORMATION FOR SEQ ID NO:1493:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 356 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1493:

GGGACAACAA	GCCCATCTGG	ATGCACGCAG	AGGAGCGGGA	GGAAAGCAAG	GATAAGCGCC	60
GGGACAGCGC	CCCCTATGGG	GAATACGGCA	GCTGGTACAA	GGCCTGTAAA	GTAGACAGCC	120
CCACAGTCAA	CACCACCTG	CGCAGCTTGG	GGGCCCTATA	CCGGCGCCAG	GGCAAGCTGG	180
AAGCCGCGCA	CACACTAGAG	GACTGTGCCA	GCGTAAACCG	CAAGCAGGGT	TTGGACCCCG	240
CAAGCCAGAC	CAAGGTGGTA	GAACTGCTGA	AAAGATGGCAG	TGGCAGGCCG	GGAGACCGCC	300
GCAGCAGCCG	AGACATGGCT	GGGGGTGCCG	GGCCTCGGTC	TGAGTCTGAC	CTCGAG	356

(2) INFORMATION FOR SEQ ID NO:1494:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 366 base pairs
- (B) TYPE: nucleic acid

- (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1494:

GAATTCCGCC	TTCATGGCCT	AGTAAAGGGA	TTTATAATAA	CATTAAAAAT	TCGTTAGAT	60
TCCAGCTGAG	CACGAGTATA	GCAGCATTAA	CTTAAATCTC	ATTGGCTACA	TTAATGAACT	120
TTCCTAATCC	TCTCAATGCC	ATGCAGATTT	TGTGGATCAA	TATTATTATG	GATGGACCCC	180
CAGCTCAGAG	CCTTGGAGTA	GAACCGAGTGG	ATAAAGATGT	CATTCGTAAA	CCTCCTCGCA	240
ACTGGAAAGA	CAGCATTTTG	ACTAAAATCTA	TGATACTTAA	AATACTTGTT	TCATCAATAA	300
TCATGTGTTG	TGGGACTTTG	TTTGTCTTCT	GGCGTGAGCT	ACGAGACAAT	GTGATTACAC	360
CTCGAG						366

(2) INFORMATION FOR SEQ ID NO:1495:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 258 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1495:

GCTCGAGCGT	TGAGGTCAAC	ACTTCCTCCA	GGGAAAAGGA	TTCCATTAAT	AGATTTGAAA	60
AGTATTCAT	AGTCTTCTC	TGTAAGATCC	AGCCTTACTG	GTACAACTCT	CGCACCTGCA	120
GACTCCAAGT	ACTTTACATA	GGACGAGCA	ATATAGTATC	TTCCATAGTT	TTTCATGACT	180
TTATTACGGC	ATTTTTGCAT	TAATATTCCG	ATGATGGGCT	TCTTGGCGGT	GTCGCCGTGG	240
GGTCTAGACT	ATCTCGAG					258

(2) INFORMATION FOR SEQ ID NO:1496:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 437 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1496:

GAATTCCGGCT	TCATGGCCTA	CTCTCTTTCT	CCATGTTAAA	CCCCTTGGCA	TGAATGAAAG	60
GCTTTCCCT	TTATCCTTGC	TGTGTTTATT	CATTGTGTCC	AATGAGCTTC	TGAAGGTAGG	120
AGTAACCTTG	CACATTTGC	TGTGTGGCT	GCTGCATCTC	TGCCAAAAGG	TTTATGGGAT	180
TTTACTTCAG	GAGATCCAGG	AAAAGGAGGA	GCCTGGAATC	TAAGCACTTA	TCTCCTGAAA	240
AGGTACAGAA	ACATGTTGGA	GATCTTGAGC	CTCAAGGTGC	TTGCTTCAGA	ATTTTCCTGA	300
TTCTCCCTCT	CCAGACCTAT	TCTGTTCTTG	GGACCCAAGC	TTCTTGCTC	CAGCCCACTC	360
CCCCACTAGA	GGAGCTGGAA	AGTTTGGTGC	TGTGGTCATA	CCAAAGATGG	GCAACACCCA	420
GACTCCTCAC	CCTCGAG					437

(2) INFORMATION FOR SEQ ID NO:1497:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 516 base pairs
 (B) TYPE: nucleic acid

(C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1497:

GAATTCTGGCC TTCATGGCCT AGTGCAGGTC CTGGTGCTTG ATGGTCGAGG CCATCTCCTG	60
GGCCGCCCTGG CGGCCATCGT GGCTAAACAG GTACTGCTGG GCCGGAAGGT GGTGGTCGTA	120
CGCTGTGAAG GCATCAACAT TTCTGCAAT TTCTACAGAA ACAAGTTGAA GTACCTGGCT	180
TTCCTCCGCA AGCGGATGAA CACCAACCC TCCCGAGGCC CCTACCACCT CCAGGGCCCCC	240
AGCCGCATCT TCTGGCGGAC CGTGCAGGTT ATGCTGCCCT ACAAAACCAA GCGAGGCCAG	300
GCCGCTCTGG ACCGTCTCAA GGTGTTGAC GGATCCCAC CGCCCTACGA CAAGAAAAAG	360
CGGATGGTGG TTCTCTGTCG CCTCAAGGTC GTGCGTCTGA AGCCTACAAG AAAGTTGCC	420
TATCTGGGGC GCCTGGCTCA CGAGGTTGGC TGGAAGTACC AGGCAGTGAC AGCCACCCCTG	480
GAGGAGAAGA AGCCAAGAAC CTCGAG	516

(2) INFORMATION FOR SEQ ID NO:1498:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 329 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1498:

GCGAGCTCCT GACCTCAGGT GATCTACCCG CCTCAGCCTC CCAAAGTGT AGGATTACAG	60
GCGTGTAGCCA CGGCACCTGG CACCCCCCCC CTTTTTTTTT AATATAAAATG ATCAGTCTTA	120
ACTCCCTAGG TTATCAGGTT GAGGGGGTGG GGATGAGGCT GGGGGACAGA TTGTTTCCCT	180
GGCTTCTAGC TCGGTGTTCT TTCTGCCTCT GTGCACAACA AGGTATGCGT GTATTGTGGT	240
TGTGGACTGT GGTTGTGGAC TGCCATTTC CAAGTGGCTA TGAGGCCCAT CTGCTGATGC	300
TTTGGATGC ACTTGGCGAT GAACTCGAG	329

(2) INFORMATION FOR SEQ ID NO:1499:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 430 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: double
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1499:

GAATTCTGGCC TTCATGGCCT AGGAGCGCGG TG GCCACCGA ACGCTGCCCG GAGCCGCGCG	60
AGGGAGGACC CGACGCGCGG CGTTTACCCA GCGCAGCGTT CCACCGCTCG GGTTTGGCTG	120
GATAAAATAA AAAATGGGAA TATTGACCTC CTGTCACTAC TGCATGGACT TTGATGGTTT	180
CCAATCATTAA CTTTCTCCTC TGTGTCAAATC TGCCCTTCG AGAAATTCA ACTCCTGAAT	240
AGCTCTCCAG ACCCCCCAGCT GGCCATGTGG TGAGTTCAAG GCCCAAATCA AGTAGTACCA	300
GCAATCAGGG AACTCCTATC TGTTTGAAAT GGATTACAC CAGCCACAAG CCTGGAAAGA	360
TGGTGTACA ATCTACAGTC AGGCAGGATT CTCCCTGTGGA GCCCTGGAA GGGATCAGCG	420
ATCACTCGAG	430

(2) INFORMATION FOR SEQ ID NO:1500:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 375 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: double
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: cDNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1500:

GAATTCCGGCC	TTCATGGCCT	AGCCAAGTCT	GGGAAGCCTT	AAGGAAAGGA	GTGCCCGTCG	60
GCGTCTTGGT	CCTCCTGTCC	CTGCTGCAGG	GGCTGGGGCC	TCCGGAGCTG	CTGCGGGCTC	120
CCCTCAGGCT	CTGCTTCGTG	ACCCGTGACC	CATGACCCAC	AGTGCTGGCC	TCCCTGTGGGG	180
CCACTATAGC	AGCCACCAGA	AGCCCGGAGG	CCCTCAGGGA	AGCCCAAGGC	CTGCAGAAGC	240
CTCCTGGCCT	GGCTGTGTCT	TCCCCACCCA	GCTCTCCCCT	GCGCCCCCTGT	CTTTGTAAAT	300
TGACCCCTTCT	GGAGTGGGGG	GCGGCGGGCA	GGGCTGCTTT	TCTTAGTCTG	ATACCAAGCA	360
AGGCCTTTTC	TCGAG					375

What is claimed is:

1. An isolated polynucleotide comprising a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145,

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NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500; or a complement of said sequence.

2. An isolated polynucleotide consisting of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID

NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217, SEQ ID NO:218, SEQ ID NO:219, SEQ ID NO:220, SEQ ID NO:221, SEQ ID NO:222, SEQ ID NO:223, SEQ ID NO:224, SEQ ID NO:225, SEQ ID NO:226, SEQ ID NO:227, SEQ ID NO:228, SEQ ID NO:229, SEQ ID NO:230, SEQ ID NO:231, SEQ ID NO:232, SEQ ID NO:233, SEQ ID NO:234, SEQ ID NO:235, SEQ ID NO:236, SEQ ID NO:237, SEQ ID NO:238, SEQ ID NO:239, SEQ ID NO:240, SEQ ID NO:241, SEQ ID NO:242, SEQ ID NO:243, SEQ ID NO:244, SEQ ID NO:245, SEQ ID NO:246, SEQ ID NO:247, SEQ ID NO:248, SEQ ID NO:249, SEQ ID NO:250, SEQ ID NO:251, SEQ ID NO:252, SEQ ID NO:253, SEQ ID NO:254, SEQ ID NO:255, SEQ ID NO:256, SEQ ID NO:257, SEQ ID

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3. An isolated polynucleotide consisting essentially of a nucleotide sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ

ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID NO:177, SEQ ID NO:178, SEQ ID NO:179, SEQ ID NO:180, SEQ ID NO:181, SEQ ID NO:182, SEQ ID NO:183, SEQ ID NO:184, SEQ ID NO:185, SEQ ID NO:186, SEQ ID NO:187, SEQ ID NO:188, SEQ ID NO:189, SEQ ID NO:190, SEQ ID NO:191, SEQ ID NO:192, SEQ ID NO:193, SEQ ID NO:194, SEQ ID NO:195, SEQ ID NO:196, SEQ ID NO:197, SEQ ID NO:198, SEQ ID NO:199, SEQ ID NO:200, SEQ ID NO:201, SEQ ID NO:202, SEQ ID NO:203, SEQ ID NO:204, SEQ ID NO:205, SEQ ID NO:206, SEQ ID NO:207, SEQ ID NO:208, SEQ ID NO:209, SEQ ID NO:210, SEQ ID NO:211, SEQ ID NO:212, SEQ ID NO:213, SEQ ID NO:214, SEQ ID NO:215, SEQ ID NO:216, SEQ ID NO:217,

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NO:1393, SEQ ID NO:1394, SEQ ID NO:1395, SEQ ID NO:1396, SEQ ID NO:1397, SEQ ID NO:1398, SEQ ID NO:1399, SEQ ID NO:1400, SEQ ID NO:1401, SEQ ID NO:1402, SEQ ID NO:1403, SEQ ID NO:1404, SEQ ID NO:1405, SEQ ID NO:1406, SEQ ID NO:1407, SEQ ID NO:1408, SEQ ID NO:1409, SEQ ID NO:1410, SEQ ID NO:1411, SEQ ID NO:1412, SEQ ID NO:1413, SEQ ID NO:1414, SEQ ID NO:1415, SEQ ID NO:1416, SEQ ID NO:1417, SEQ ID NO:1418, SEQ ID NO:1419, SEQ ID NO:1420, SEQ ID NO:1421, SEQ ID NO:1422, SEQ ID NO:1423, SEQ ID NO:1424, SEQ ID NO:1425, SEQ ID NO:1426, SEQ ID NO:1427, SEQ ID NO:1428, SEQ ID NO:1429, SEQ ID NO:1430, SEQ ID NO:1431, SEQ ID NO:1432, SEQ ID NO:1433, SEQ ID NO:1434, SEQ ID NO:1435, SEQ ID NO:1436, SEQ ID NO:1437, SEQ ID NO:1438, SEQ ID NO:1439, SEQ ID NO:1440, SEQ ID NO:1441, SEQ ID NO:1442, SEQ ID NO:1443, SEQ ID NO:1444, SEQ ID NO:1445, SEQ ID NO:1446, SEQ ID NO:1447, SEQ ID NO:1448, SEQ ID NO:1449, SEQ ID NO:1450, SEQ ID NO:1451, SEQ ID NO:1452, SEQ ID NO:1453, SEQ ID NO:1454, SEQ ID NO:1455, SEQ ID NO:1456, SEQ ID NO:1457, SEQ ID NO:1458, SEQ ID NO:1459, SEQ ID NO:1460, SEQ ID NO:1461, SEQ ID NO:1462, SEQ ID NO:1463, SEQ ID NO:1464, SEQ ID NO:1465, SEQ ID NO:1466, SEQ ID NO:1467, SEQ ID NO:1468, SEQ ID NO:1469, SEQ ID NO:1470, SEQ ID NO:1471, SEQ ID NO:1472, SEQ ID NO:1473, SEQ ID NO:1474, SEQ ID NO:1475, SEQ ID NO:1476, SEQ ID NO:1477, SEQ ID NO:1478, SEQ ID NO:1479, SEQ ID NO:1480, SEQ ID NO:1481, SEQ ID NO:1482, SEQ ID NO:1483, SEQ ID NO:1484, SEQ ID NO:1485, SEQ ID NO:1486, SEQ ID NO:1487, SEQ ID NO:1488, SEQ ID NO:1489, SEQ ID NO:1490, SEQ ID NO:1491, SEQ ID NO:1492, SEQ ID NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500;

or a complement of said sequence.

4. An isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence selected from the group consisting of:

SEQ ID NO:1, SEQ ID NO:2, SEQ ID NO:3, SEQ ID NO:4, SEQ ID NO:5, SEQ ID NO:6, SEQ ID NO:7, SEQ ID NO:8, SEQ ID NO:9, SEQ ID NO:10, SEQ ID NO:11, SEQ ID NO:12, SEQ ID NO:13, SEQ ID NO:14, SEQ ID NO:15, SEQ

ID NO:16, SEQ ID NO:17, SEQ ID NO:18, SEQ ID NO:19, SEQ ID NO:20, SEQ ID NO:21, SEQ ID NO:22, SEQ ID NO:23, SEQ ID NO:24, SEQ ID NO:25, SEQ ID NO:26, SEQ ID NO:27, SEQ ID NO:28, SEQ ID NO:29, SEQ ID NO:30, SEQ ID NO:31, SEQ ID NO:32, SEQ ID NO:33, SEQ ID NO:34, SEQ ID NO:35, SEQ ID NO:36, SEQ ID NO:37, SEQ ID NO:38, SEQ ID NO:39, SEQ ID NO:40, SEQ ID NO:41, SEQ ID NO:42, SEQ ID NO:43, SEQ ID NO:44, SEQ ID NO:45, SEQ ID NO:46, SEQ ID NO:47, SEQ ID NO:48, SEQ ID NO:49, SEQ ID NO:50, SEQ ID NO:51, SEQ ID NO:52, SEQ ID NO:53, SEQ ID NO:54, SEQ ID NO:55, SEQ ID NO:56, SEQ ID NO:57, SEQ ID NO:58, SEQ ID NO:59, SEQ ID NO:60, SEQ ID NO:61, SEQ ID NO:62, SEQ ID NO:63, SEQ ID NO:64, SEQ ID NO:65, SEQ ID NO:66, SEQ ID NO:67, SEQ ID NO:68, SEQ ID NO:69, SEQ ID NO:70, SEQ ID NO:71, SEQ ID NO:72, SEQ ID NO:73, SEQ ID NO:74, SEQ ID NO:75, SEQ ID NO:76, SEQ ID NO:77, SEQ ID NO:78, SEQ ID NO:79, SEQ ID NO:80, SEQ ID NO:81, SEQ ID NO:82, SEQ ID NO:83, SEQ ID NO:84, SEQ ID NO:85, SEQ ID NO:86, SEQ ID NO:87, SEQ ID NO:88, SEQ ID NO:89, SEQ ID NO:90, SEQ ID NO:91, SEQ ID NO:92, SEQ ID NO:93, SEQ ID NO:94, SEQ ID NO:95, SEQ ID NO:96, SEQ ID NO:97, SEQ ID NO:98, SEQ ID NO:99, SEQ ID NO:100, SEQ ID NO:101, SEQ ID NO:102, SEQ ID NO:103, SEQ ID NO:104, SEQ ID NO:105, SEQ ID NO:106, SEQ ID NO:107, SEQ ID NO:108, SEQ ID NO:109, SEQ ID NO:110, SEQ ID NO:111, SEQ ID NO:112, SEQ ID NO:113, SEQ ID NO:114, SEQ ID NO:115, SEQ ID NO:116, SEQ ID NO:117, SEQ ID NO:118, SEQ ID NO:119, SEQ ID NO:120, SEQ ID NO:121, SEQ ID NO:122, SEQ ID NO:123, SEQ ID NO:124, SEQ ID NO:125, SEQ ID NO:126, SEQ ID NO:127, SEQ ID NO:128, SEQ ID NO:129, SEQ ID NO:130, SEQ ID NO:131, SEQ ID NO:132, SEQ ID NO:133, SEQ ID NO:134, SEQ ID NO:135, SEQ ID NO:136, SEQ ID NO:137, SEQ ID NO:138, SEQ ID NO:139, SEQ ID NO:140, SEQ ID NO:141, SEQ ID NO:142, SEQ ID NO:143, SEQ ID NO:144, SEQ ID NO:145, SEQ ID NO:146, SEQ ID NO:147, SEQ ID NO:148, SEQ ID NO:149, SEQ ID NO:150, SEQ ID NO:151, SEQ ID NO:152, SEQ ID NO:153, SEQ ID NO:154, SEQ ID NO:155, SEQ ID NO:156, SEQ ID NO:157, SEQ ID NO:158, SEQ ID NO:159, SEQ ID NO:160, SEQ ID NO:161, SEQ ID NO:162, SEQ ID NO:163, SEQ ID NO:164, SEQ ID NO:165, SEQ ID NO:166, SEQ ID NO:167, SEQ ID NO:168, SEQ ID NO:169, SEQ ID NO:170, SEQ ID NO:171, SEQ ID NO:172, SEQ ID NO:173, SEQ ID NO:174, SEQ ID NO:175, SEQ ID NO:176, SEQ ID

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NO:1493, SEQ ID NO:1494, SEQ ID NO:1495, SEQ ID NO:1496, SEQ ID NO:1497, SEQ ID NO:1498, SEQ ID NO:1499, and SEQ ID NO:1500; or to a complement of said sequence.

5. An isolated protein encoded by an isolated polynucleotide of claim 1.
6. An isolated protein encoded by an isolated polynucleotide of claim 2.
7. An isolated protein encoded by an isolated polynucleotide of claim 3.
8. An isolated protein encoded by an isolated polynucleotide of claim 4.

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(51) International Patent Classification 6: C12N 15/12, 5/10, C07K 14/47, C12Q 1/68, A61K 38/17		A3	(11) International Publication Number: WO 98/45436 (43) International Publication Date: 15 October 1998 (15.10.98)
(21) International Application Number: PCT/US98/06955 (22) International Filing Date: 10 April 1998 (10.04.98) (30) Priority Data: 08/838,821 10 April 1997 (10.04.97) US		(81) Designated States: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, GW, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>	
(71) Applicant: GENETICS INSTITUTE, INC. [US/US]; 87 CambridgePark Drive, Cambridge, MA 02140 (US). (72) Inventors: JACOBS, Kenneth; 151 Beaumont Avenue, Newton, MA 02160 (US). MCCOY, John, M.; 56 Howard Street, Reading, MA 01867 (US). LAVALLIE, Edward, R.; 113 Ann Lee Road, Harvard, MA 01451 (US). RACIE, Lisa, A.; 124 School Street, Acton, MA 01720 (US). MERRBERG, David; 2 Orchard Drive, Acton, MA 01720 (US). TREACY, Maurice; 93 Walcott Road, Chestnut Hill, MA 02167 (US). SPAULDING, Vikki; 11 Meadowbank Road, Billerica, MA 01821 (US). AGOSTINO, Michael, J.; 26 Wolcott Avenue, Andover, MA 01810 (US).		(88) Date of publication of the international search report: 12 November 1998 (12.11.98)	
(54) Title: SECRETED EXPRESSED SEQUENCE TAGS (sESTs)			
(57) Abstract Secreted expressed sequence tags (sESTs) isolated from a variety of human tissue sources are provided.			

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 98/06955

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 C12N15/12 C12N5/10 C07K14/47 C12Q1/68 A61K38/17

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 C12N C07K C12Q A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 97 07198 A (GENETICS INSTITUT) 27 February 1997 see the whole document ---	1-8
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A	ADAMS M D ET AL: "3,400 NEW EXPRESSED SEQUENCE TAGS IDENTIFY DIVERSITY OF TRANSCRIPTS IN HUMAN BRAIN" NATURE GENETICS, vol. 4, no. 3, July 1993, pages 256-267, XP000611495 see the whole document ---	1-8

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

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Date of the actual completion of the international search

Date of mailing of the international search report

3 July 1998

30.09.98

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 98/06955

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 536 637 A (JACOBS KENNETH) 16 July 1996 cited in the application see the whole document ---	1-8
A	JACOBS K ET AL: "A NOVEL METHOD FOR ISOLATING EUKARYOTIC cDNA CLONES ENCODING SECRETED PROTEINS" JOURNAL OF CELLULAR BIOCHEMISTRY - SUPPLEMENT, vol. 21A, 10 March 1995, page 19 XP002027246 see abstract ---	1-8
A	WO 90 14432 A (GENETICS INST) 29 November 1990 see the whole document ---	1-8
A	WO 96 17925 A (IMMUNEX CORP) 13 June 1996 see the whole document -----	1-8

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 98/06955

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:

3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see further information sheet

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

see further information sheet, subject 1.

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

Invention 1. Claims: (1-8) partially

An isolated polynucleotide comprising a nucleotide sequence selected from SEQ ID no.1, consisting of a nucleotide sequence selected from SEQ ID no.1, consisting essentially of a nucleotide sequence selected from SEQ ID no.1; an isolated polynucleotide comprising a nucleotide sequence which hybridizes to a sequence consisting of SEQ ID no.1; an isolated protein encoded by said isolated polynucleotides;

Inventions 2 to 1500. Claims: (1-8) partially

Idem as subject 1 but limited to SEQ ID nos.2 to 1500 respectively clone ID nos. BV34 to BK517. (Invention 2 is limited to SEQ ID. no. 2; Invention 3 is limited to SEQ ID no. 3;.....Invention 1500 is limited to SEQ ID no. 1500);

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US98/06955

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